

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV120618\
 Data File : VV008868.D
 Acq On : 06 Dec 2018 21:22
 Operator : SY/MD
 Sample : MDL03
 Misc : 5.00g/10.0 mL/MSVOA_V/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

sam
 12/11/2018 4:25:53 PM

Quant Time: Dec 07 01:59:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 07 01:37:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	195947	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	174488	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	71573	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	56612	27.92	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	111.68%
7) Chloroethane-d5	1.58	69	51268	34.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	136.88%
10) 1,1-Dichloroethene-d2	2.13	63	106803	21.07	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.28%
20) 2-Butanone-d5	3.94	46	45428	61.54	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	123.08%
24) Chloroform-d	4.40	84	122862	26.08	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	104.32%
26) 1,2-Dichloroethane-d4	5.08	65	73208	28.48	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	113.92%
29) Benzene-d6	5.10	84	258721	26.55	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	106.20%
33) 1,2-Dichloropropane-d6	6.12	67	74156	27.18	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	108.72%
37) Toluene-d8	7.36	98	231423	25.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.64%
38) trans-1,3-Dichloropropene-	7.67	79	31153	25.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	103.96%
39) 2-Hexanone-d5	8.14	63	27742	55.51	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	111.02%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	60345	26.37	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	105.48%
61) 1,2-Dichlorobenzene-d4	11.68	152	71071	26.46	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	105.84%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	3401	1.059 ug/L	92
3) Chloromethane	1.25	50	2376	1.076 ug/L	93
5) Vinyl chloride	1.32	62	2524	1.024 ug/L #	55
6) Bromomethane	1.53	94	1538	1.298 ug/L	95
8) Chloroethane	1.60	64	2240	1.623 ug/L	89
9) Trichlorofluoromethane	1.77	101	4987	1.182 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3650	1.261 ug/L #	87
12) 1,1-Dichloroethene	2.14	96	3720	1.473 ug/L #	1
13) Acetone	2.19	43	3114	2.863 ug/L	95
14) Carbon disulfide	2.32	76	8056	0.993 ug/L	95
15) Methyl Acetate	2.46	43	1340m	0.972 ug/L	
16) Methylene chloride	2.53	84	9859	2.988 ug/L	92
17) Methyl tert-butyl Ether	2.81	73	5625	0.980 ug/L #	95
18) trans-1,2-Dichloroethene	2.79	96	2744	1.005 ug/L	97
19) 1,1-Dichloroethane	3.23	63	4190	0.947 ug/L	97
21) 2-Butanone	4.03	43	1559m	1.529 ug/L	
22) cis-1,2-Dichloroethene	3.96	96	2552	0.897 ug/L	98

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Manual Integrations
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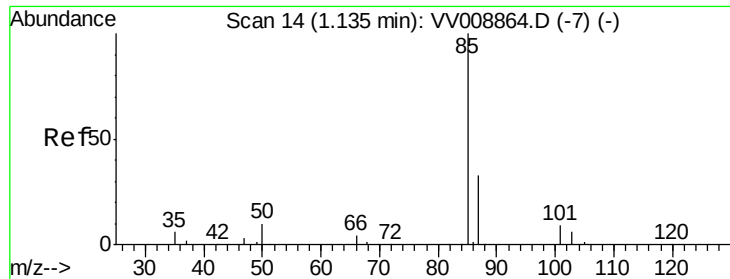
sam
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Quant Time: Dec 07 01:59:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.30	128	1303m	0.971	ug/L	
25) Chloroform	4.43	83	6811	1.434	ug/L	79
27) 1,2-Dichloroethane	5.18	62	3518	1.088	ug/L #	90
30) Cyclohexane	4.73	56	3966	0.903	ug/L #	89
31) 1,1,1-Trichloroethane	4.66	97	4206	0.935	ug/L #	68
32) Carbon tetrachloride	4.88	117	3542	0.862	ug/L #	61
34) Benzene	5.15	78	10541	1.008	ug/L	100
35) Trichloroethene	5.96	95	3182	1.010	ug/L	98
36) Methylcyclohexane	6.18	83	4899	0.975	ug/L	98
40) 1,2-Dichloropropane	6.22	63	2494	0.994	ug/L #	85
41) Bromodichloromethane	6.56	83	3015	0.912	ug/L	94
42) cis-1,3-Dichloropropene	7.07	75	3415	0.930	ug/L	85
43) 4-Methyl-2-pentanone	7.28	43	4470	2.636	ug/L #	89
44) Toluene	7.43	91	10924	0.996	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	2743	0.857	ug/L	97
46) 1,1,2-Trichloroethane	7.89	97	2008	0.961	ug/L	95
47) Tetrachloroethene	8.02	164	2361	0.921	ug/L	87
49) 2-Hexanone	8.19	43	4822	3.437	ug/L #	59
50) Dibromochloromethane	8.29	129	2032	0.848	ug/L	99
51) 1,2-Dibromoethane	8.40	107	1839	0.876	ug/L #	96
52) Chlorobenzene	8.93	112	7011	0.982	ug/L	99
53) Ethylbenzene	9.06	91	10791	0.907	ug/L	95
54) m,p-Xylene	9.19	106	4438	0.985	ug/L	94
55) o-xylene	9.59	106	3819	0.913	ug/L	93
56) Styrene	9.61	104	5276	0.782	ug/L	95
57) Isopropylbenzene	9.98	105	9779	0.860	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.29	83	2479m	1.097	ug/L	
59) 1,2,3-Trichloropropane	10.32	75	1947	0.996	ug/L	100
62) Bromoform	9.78	173	1201	0.929	ug/L #	63
63) 1,3-Dichlorobenzene	11.23	146	4687	1.016	ug/L	95
64) 1,4-Dichlorobenzene	11.32	146	4951	1.043	ug/L	92
65) 1,2-Dichlorobenzene	11.69	146	4585	1.078	ug/L	88
66) 1,2-Dibromo-3-chloropropan	12.48	75	283m	0.812	ug/L	
67) 1,3,5-Trichlorobenzene	12.69	180	3314	0.995	ug/L	93
68) 1,2,4-trichlorobenzene	13.31	180	1780	0.763	ug/L	97
69) Naphthalene	13.56	128	2700	0.672	ug/L #	85
70) 1,2,3-Trichlorobenzene	13.80	180	1679	0.779	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2

Dichlorodifluoromethane

Concen: 1.059 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tgt Ion: 85 Resp: 3401

Ion Ratio Lower Upper

85 100

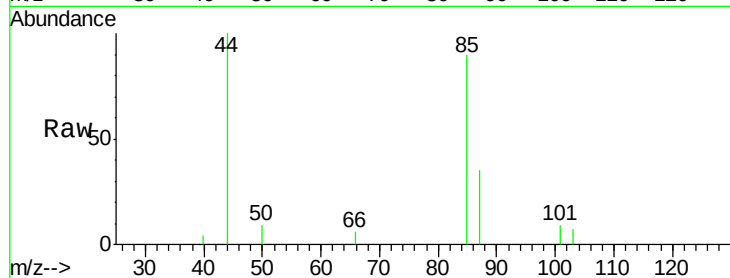
87 36.7 22.4 41.6

Manual Integrations

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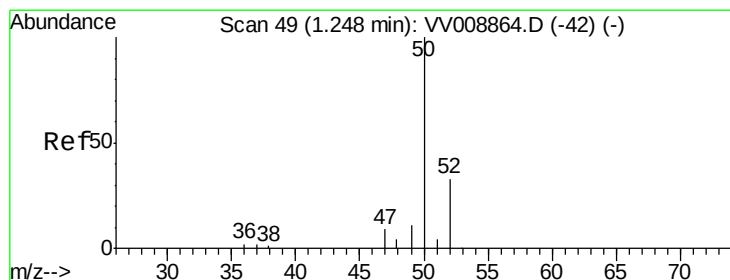
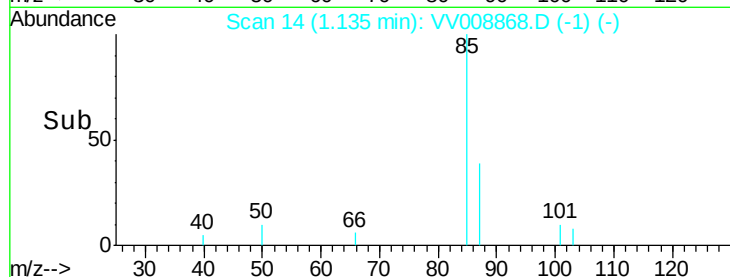
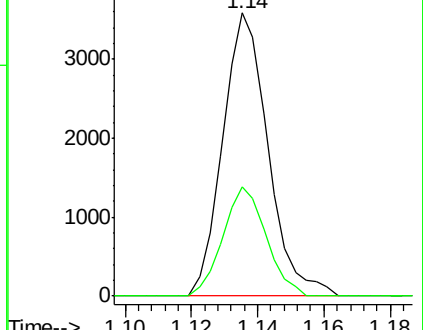
sam

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Abundance Ion 85.00 (84.70 to 85.70): VV008868.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV008868.D (-7) (-)



#3

Chloromethane

Concen: 1.076 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV008868.D

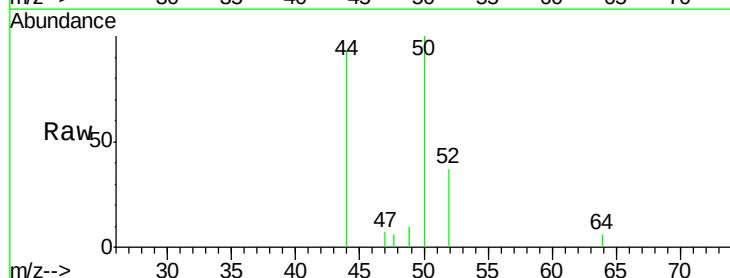
Acq: 06 Dec 2018 21:22

Tgt Ion: 50 Resp: 2376

Ion Ratio Lower Upper

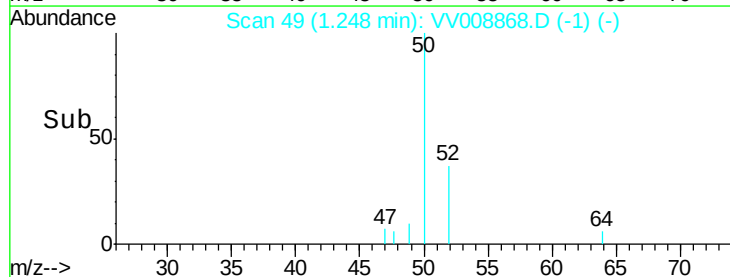
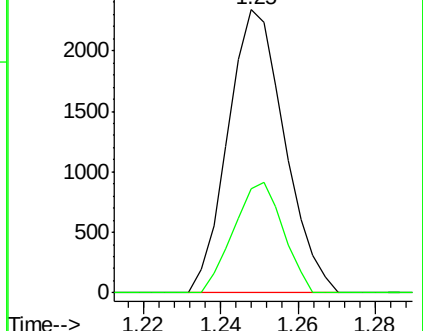
50 100

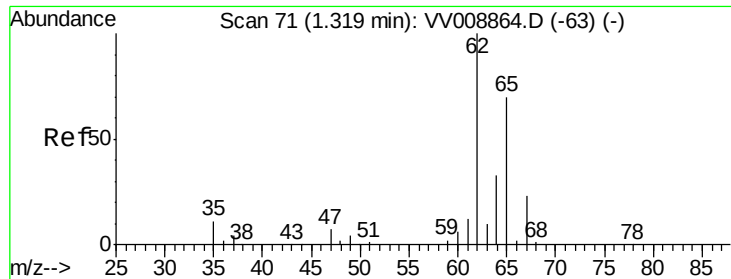
52 37.0 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VV008868.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV008868.D (-42) (-)





#5

Vinyl chloride

Concen: 1.024 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tgt Ion: 62 Resp: 2524

Ion Ratio Lower Upper

62 100

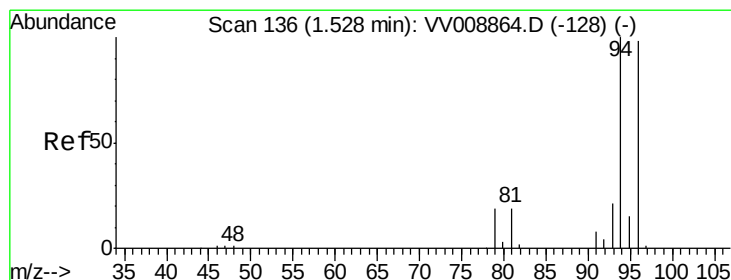
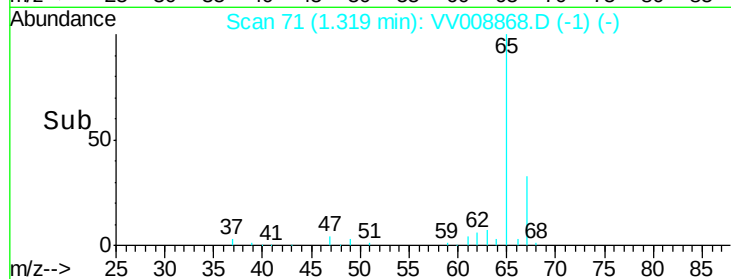
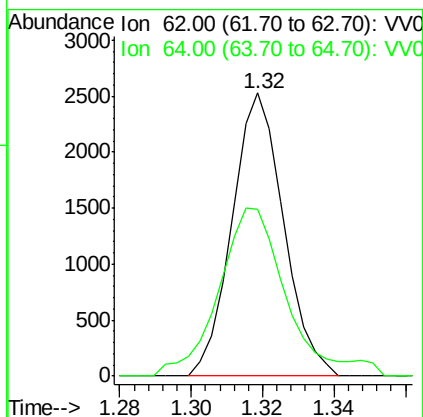
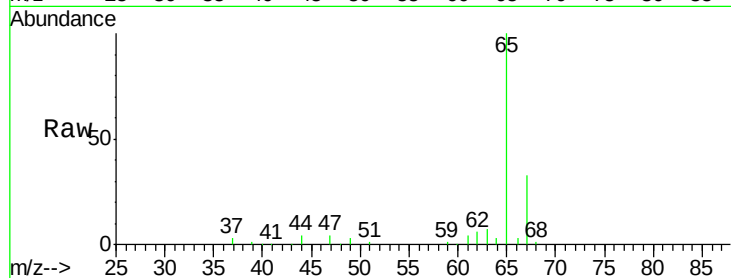
64 58.9 23.3 43.3#

Manual Integrations

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#6

Bromomethane

Concen: 1.298 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV008868.D

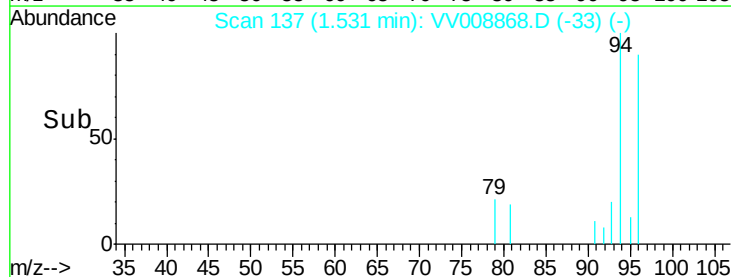
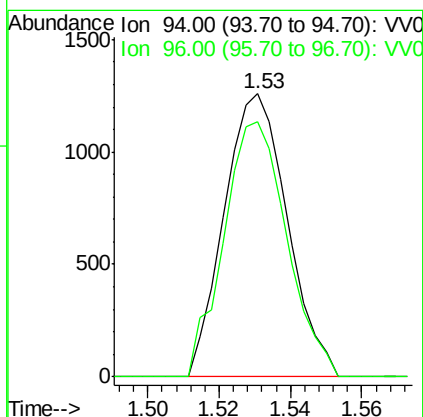
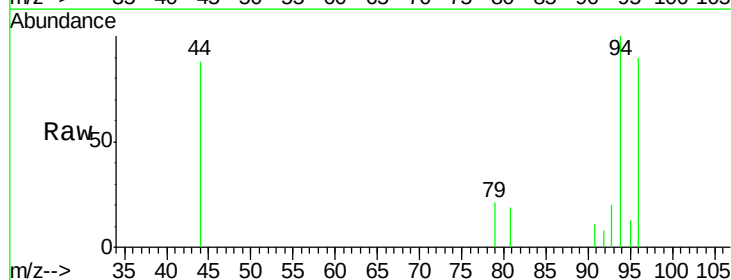
Acq: 06 Dec 2018 21:22

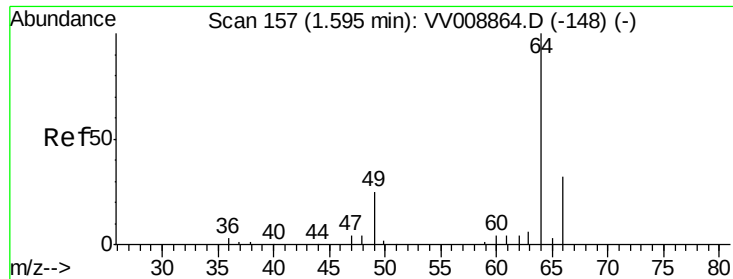
Tgt Ion: 94 Resp: 1538

Ion Ratio Lower Upper

94 100

96 90.1 9.5 180.9





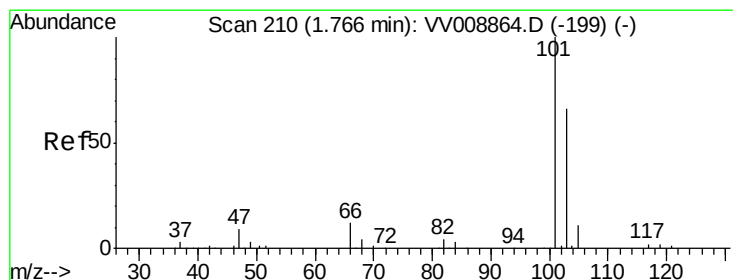
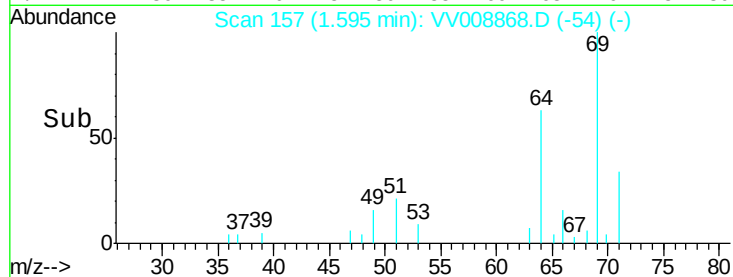
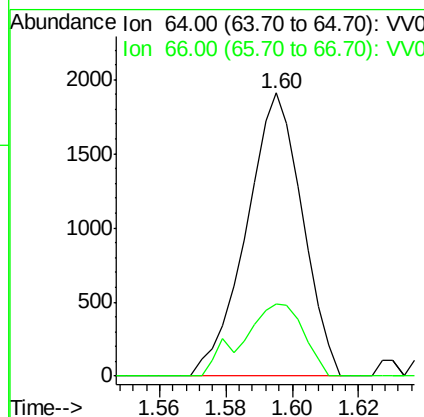
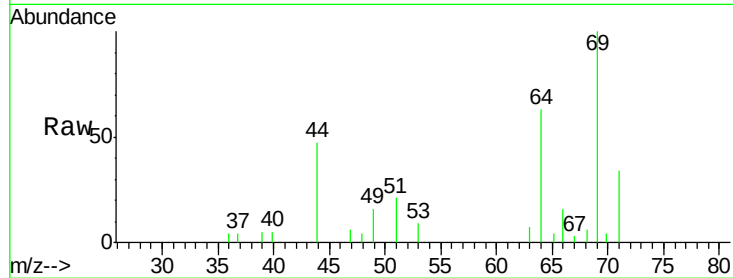
#8
Chloroethane
Concen: 1.623 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tgt Ion: 64 Resp: 2240
Ion Ratio Lower Upper
64 100
66 25.7 22.2 41.2

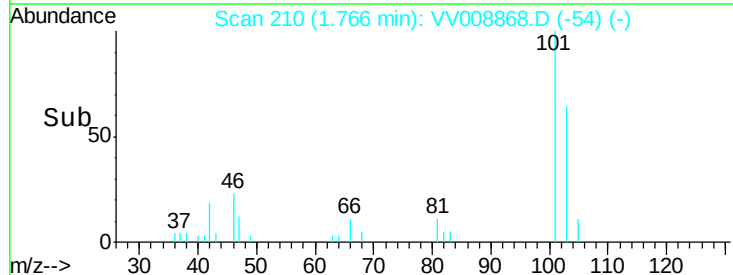
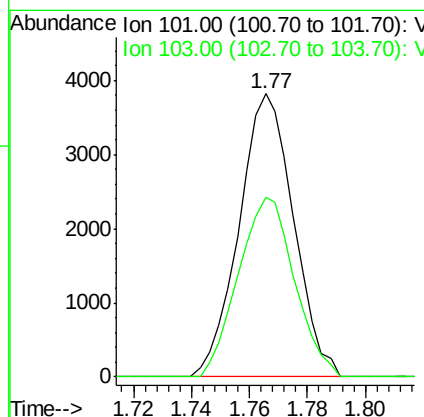
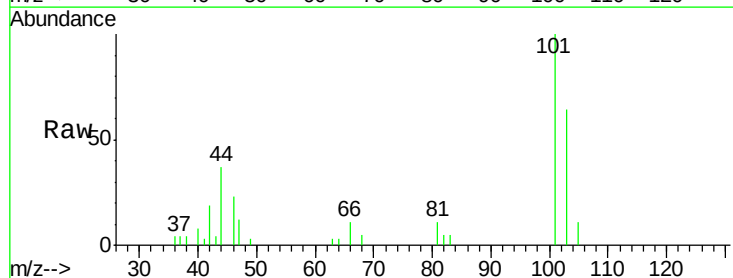
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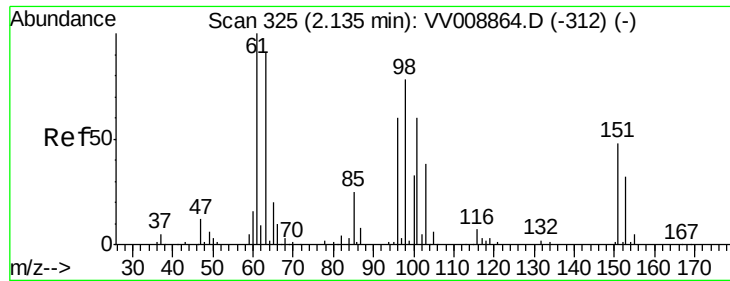
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#9
Trichlorofluoromethane
Concen: 1.182 ug/L
RT: 1.77 min Scan# 210
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Tgt Ion: 101 Resp: 4987
Ion Ratio Lower Upper
101 100
103 65.2 44.8 83.2





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.261 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

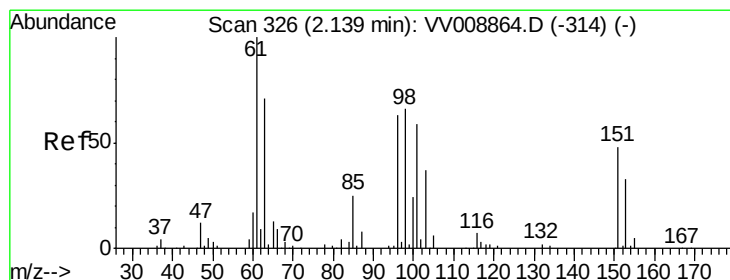
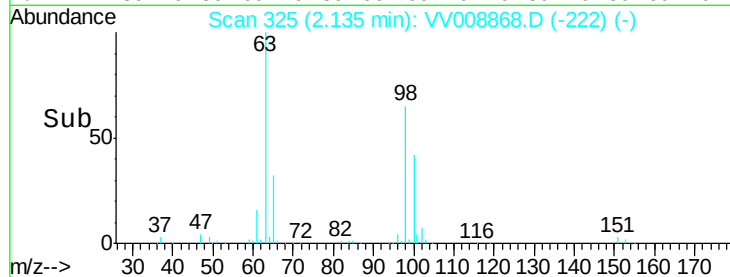
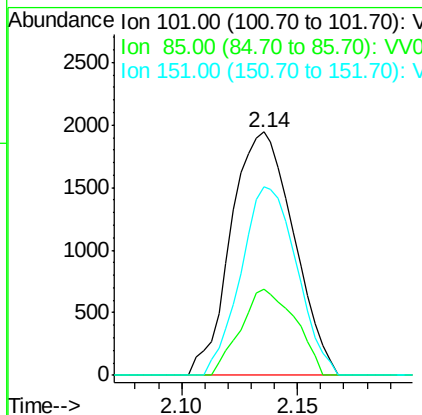
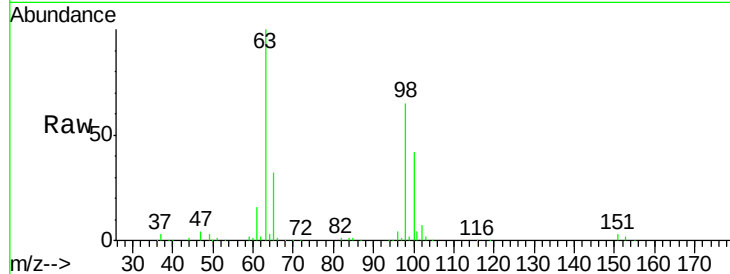
ClientSampled :

MDL03

Tgt Ion:	101	Resp:	3650
Ion Ratio	Lower	Upper	
101	100		
85	31.0	32.5	48.7#
151	69.3	64.2	96.4

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#12

1,1-Dichloroethene

Concen: 1.473 ug/L

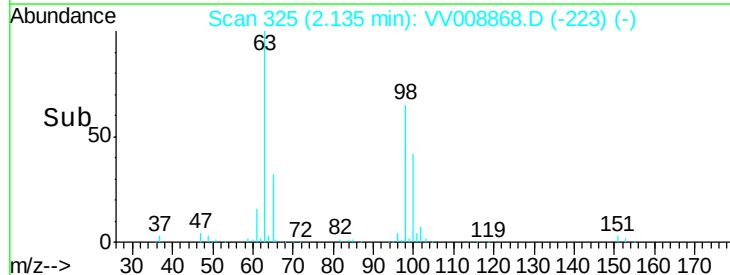
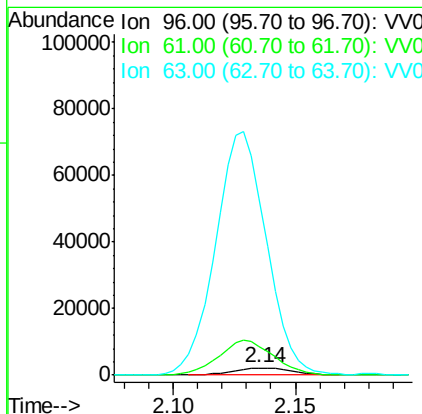
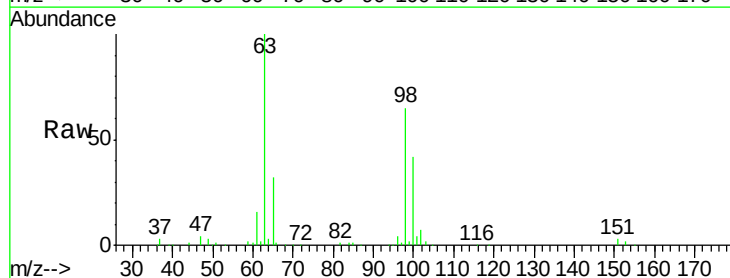
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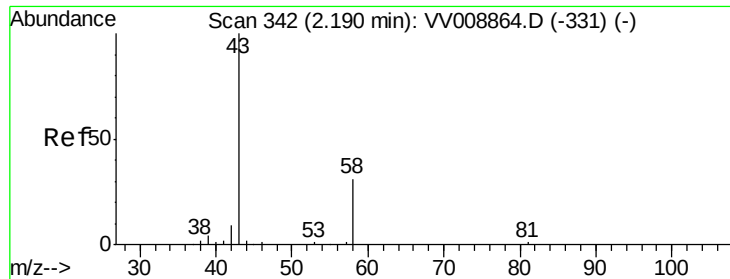
Delta R.T. -0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Tgt Ion:	96	Resp:	3720
Ion Ratio	Lower	Upper	
96	100		
61	390.4	114.0	211.6#
63	2385.3	82.4	153.0#





#13

Acetone

Concen: 2.863 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tgt Ion: 43 Resp: 3114

Ion Ratio Lower Upper

43 100

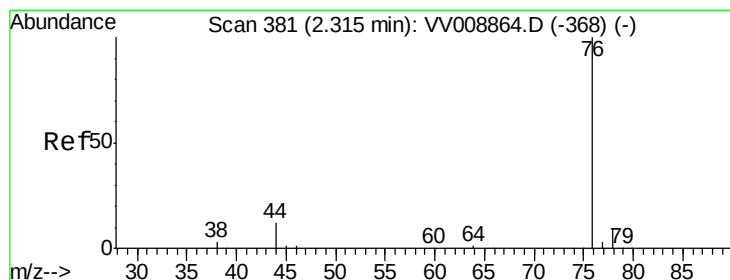
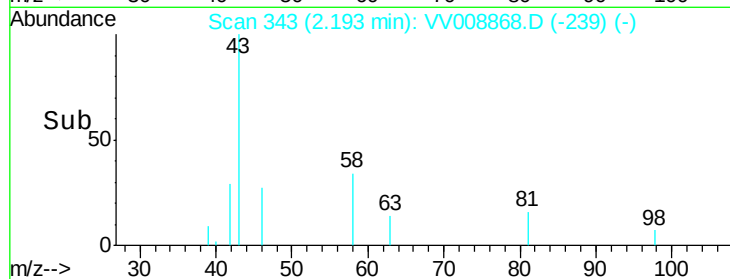
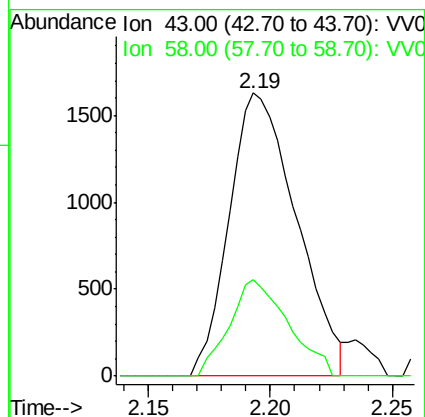
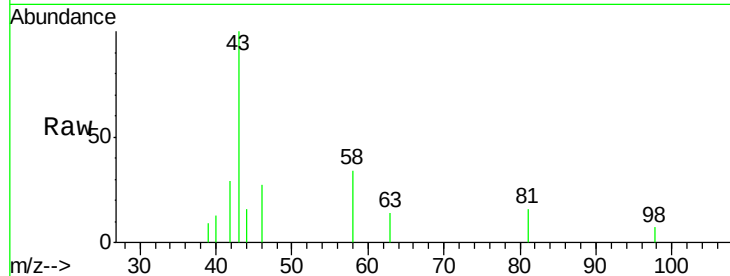
58 29.7 0.0 65.4

Manual Integrations

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#14

Carbon disulfide

Concen: 0.993 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV008868.D

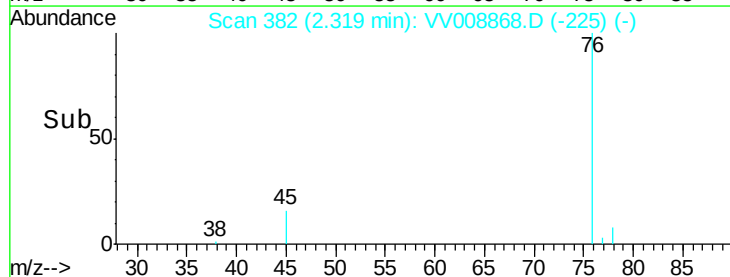
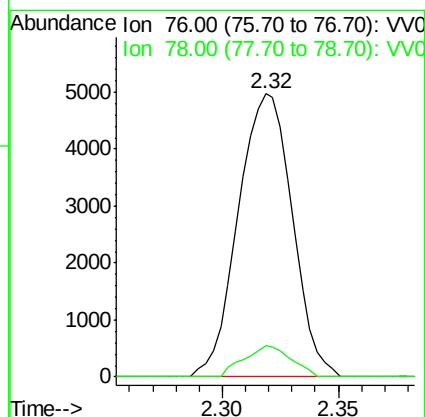
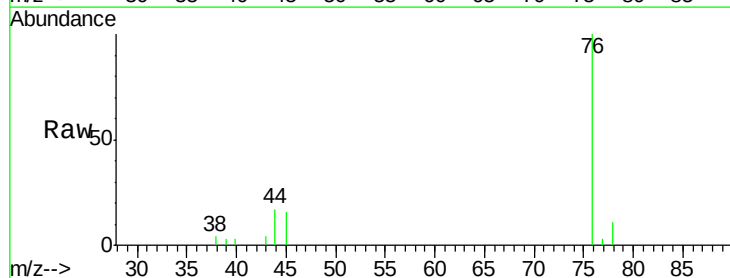
Acq: 06 Dec 2018 21:22

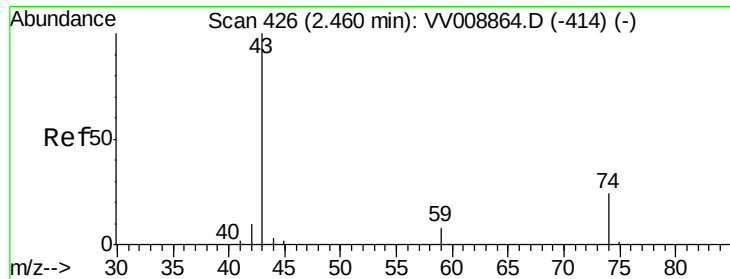
Tgt Ion: 76 Resp: 8056

Ion Ratio Lower Upper

76 100

78 10.9 7.4 11.0





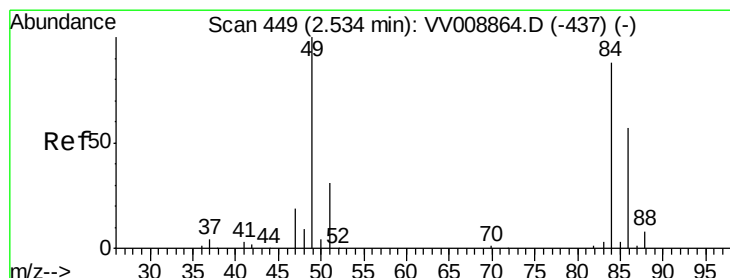
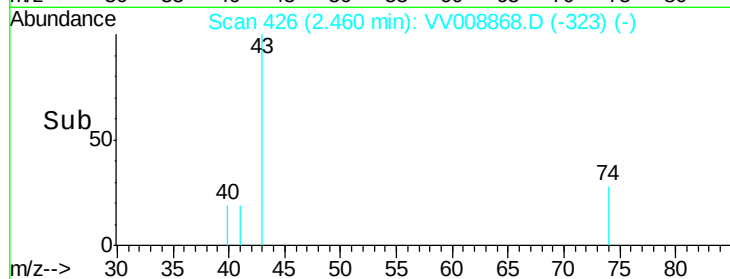
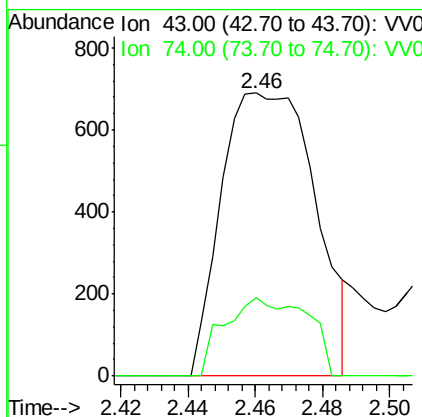
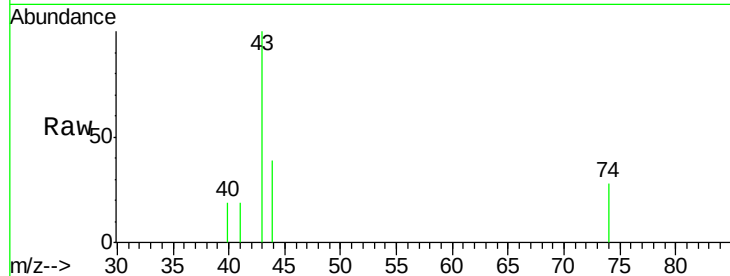
#15
Methyl Acetate
Concen: 0.972 ug/L m
RT: 2.46 min Scan# 426
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tgt Ion: 43 Resp: 1340
Ion Ratio Lower Upper
43 100
74 5.8 19.7 29.5#

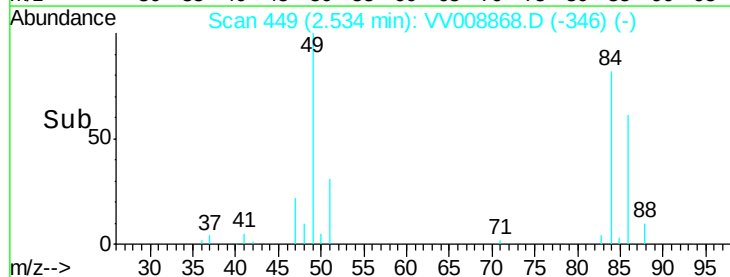
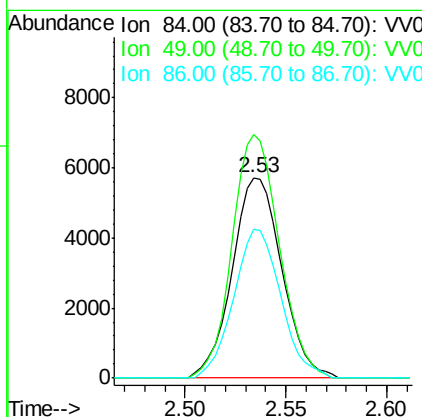
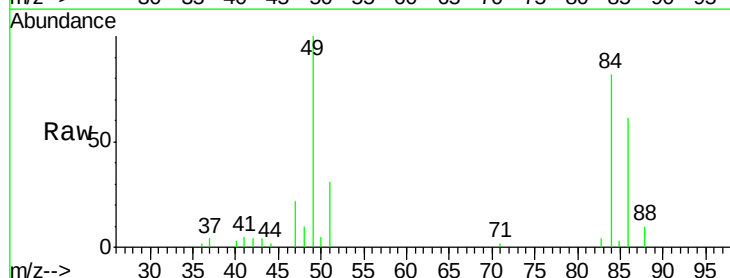
Manual Integrations
APPROVED

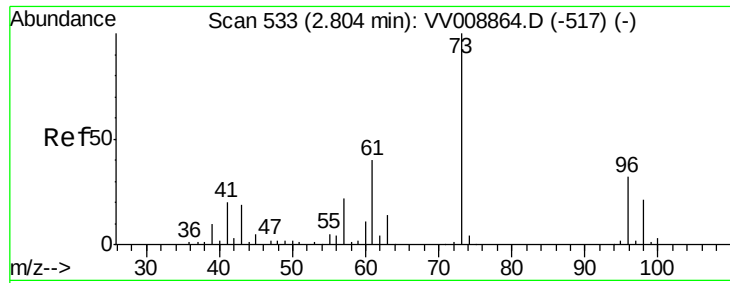
sam
12/11/2018 4:25:53 PM



#16
Methylene chloride
Concen: 2.988 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Tgt Ion: 84 Resp: 9859
Ion Ratio Lower Upper
84 100
49 121.6 80.5 149.5
86 74.1 45.5 84.5





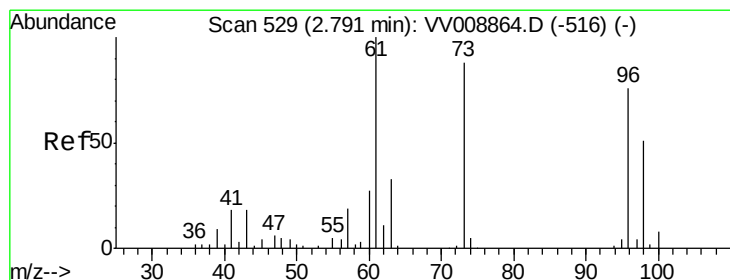
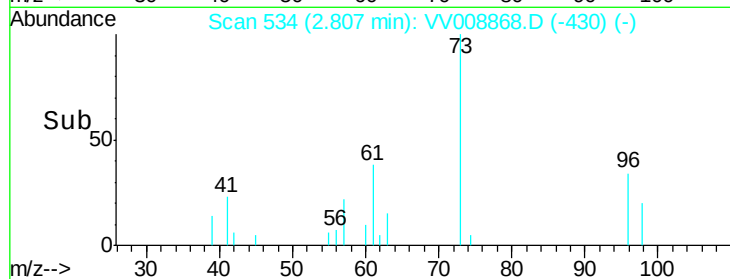
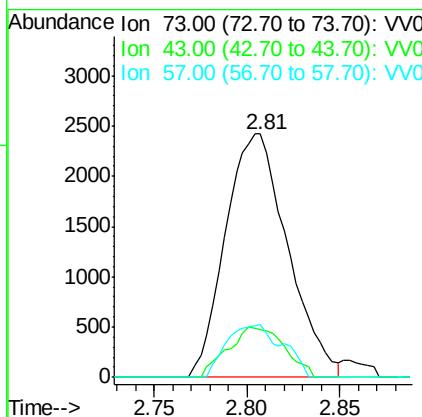
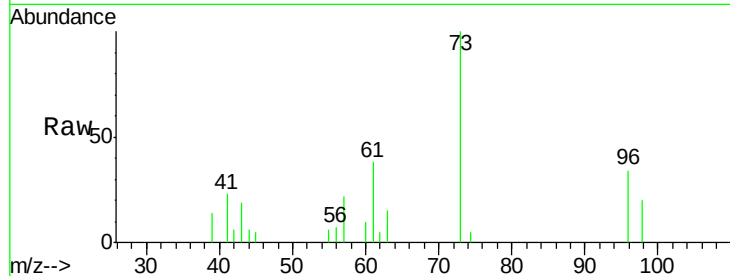
#17
Methyl tert-butyl Ether
Concen: 0.980 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tgt Ion	Ratio	Lower	Upper
73	100		
43	18.8	14.9	22.3
57	16.0	16.0	24.0#

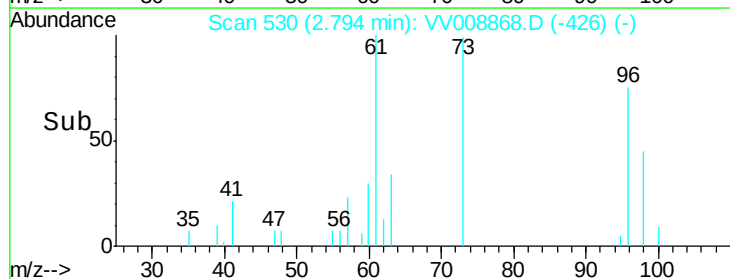
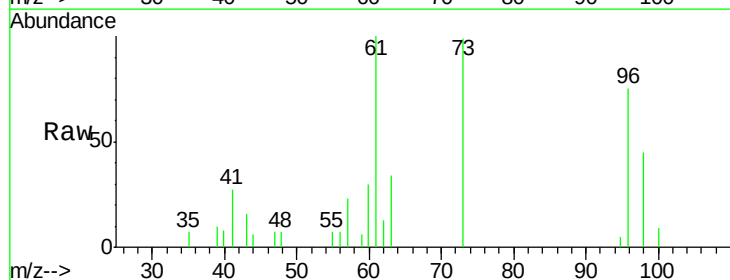
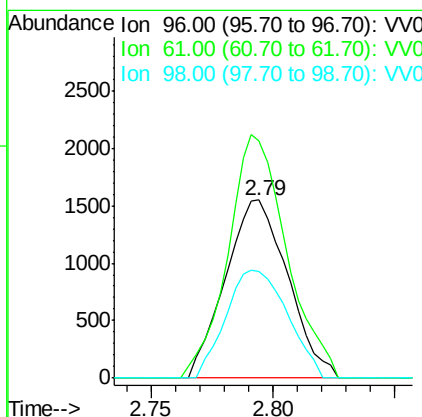
Manual Integrations
APPROVED

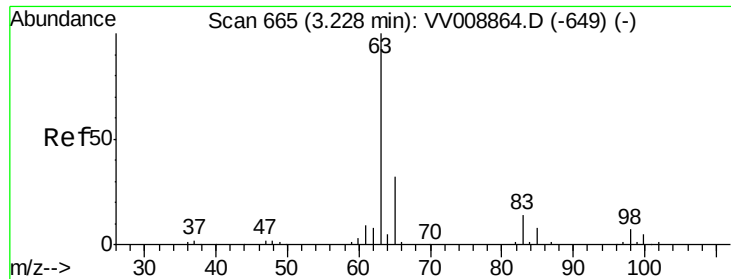
sam
12/11/2018 4:25:53 PM



#18
trans-1,2-Dichloroethene
Concen: 1.005 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	133.4	94.6	175.8
98	59.5	45.3	84.1





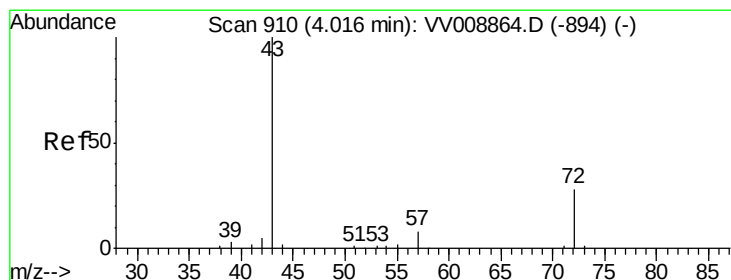
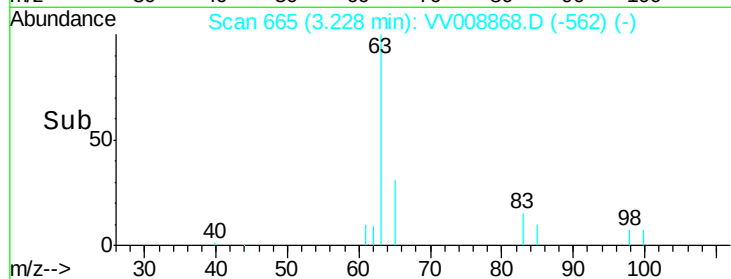
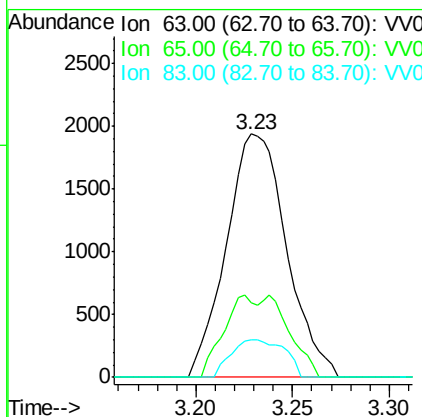
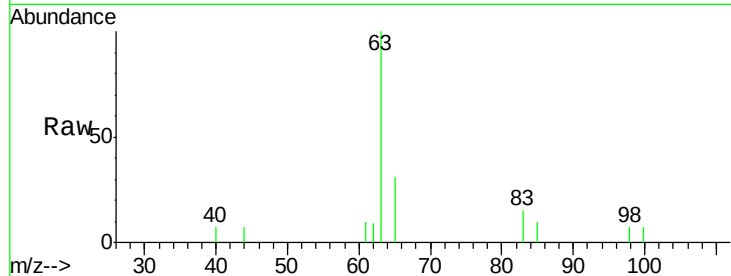
#19
 1,1-Dichloroethane
 Concen: 0.947 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV008868.D
 Acq: 06 Dec 2018 21:22

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.8	22.7	42.1
83	15.5	10.2	19.0

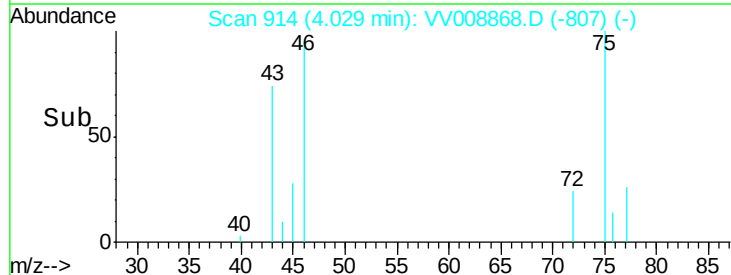
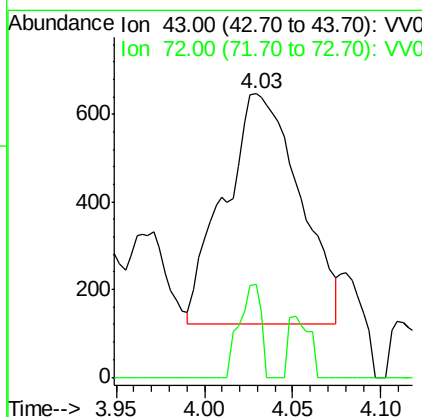
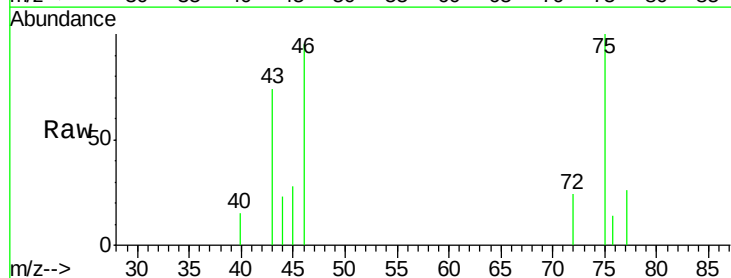
Manual Integrations
 APPROVED

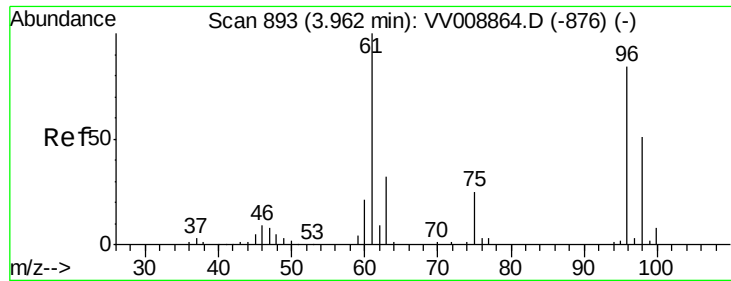
sam
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#21
 2-Butanone
 Concen: 1.529 ug/L m
 RT: 4.03 min Scan# 914
 Delta R.T. 0.01 min
 Lab File: VV008868.D
 Acq: 06 Dec 2018 21:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	11.6	13.7	41.1#





#22

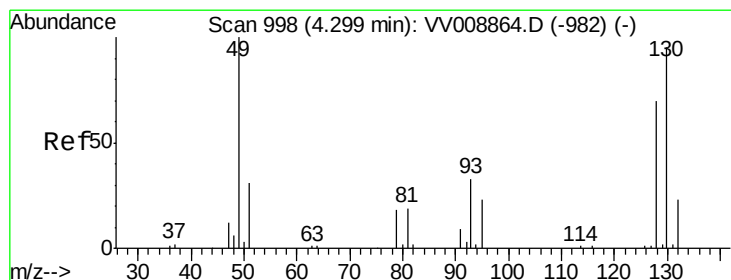
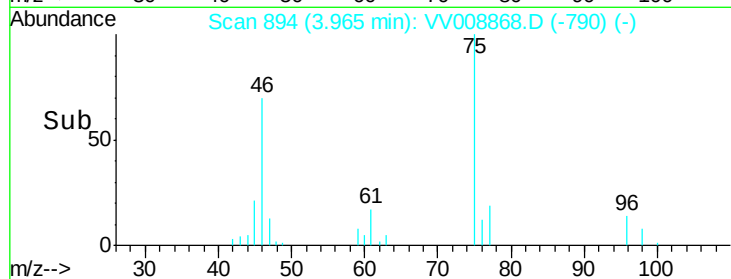
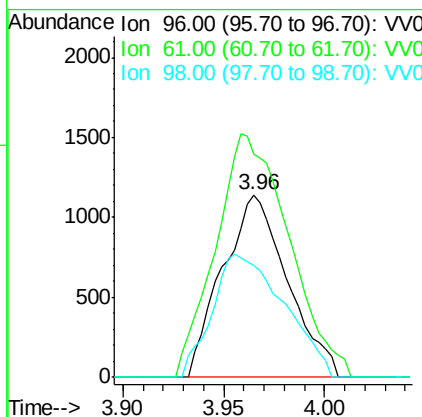
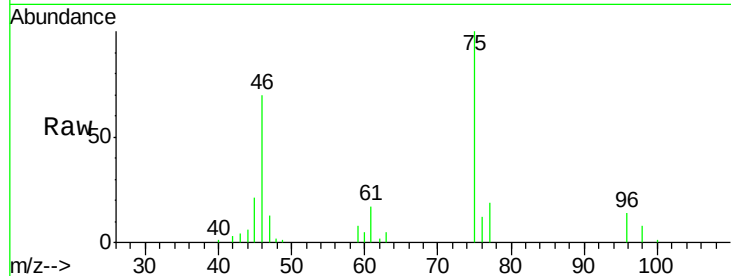
cis-1,2-Dichloroethene
Concen: 0.897 ug/L
RT: 3.96 min Scan# 894
Delta R.T. 0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	122.4	86.2	160.0
98	60.8	45.6	84.6

Manual Integrations
APPROVED

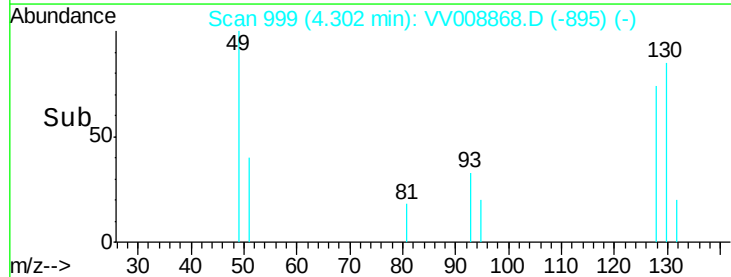
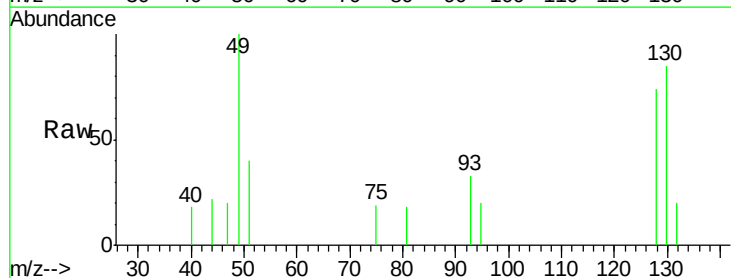
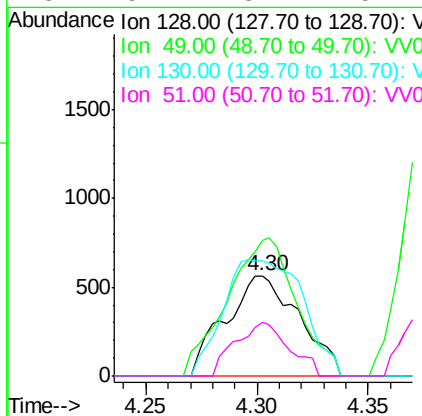
sam
12/11/2018 4:25:53 PM

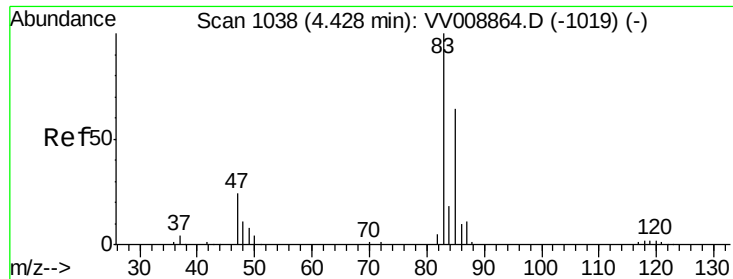


#23

Bromochloromethane
Concen: 0.971 ug/L m
RT: 4.30 min Scan# 999
Delta R.T. 0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Tgt Ion	Ratio	Lower	Upper
128	100		
49	134.8	93.8	174.2
130	115.2	90.4	168.0
51	54.1	34.2	51.4





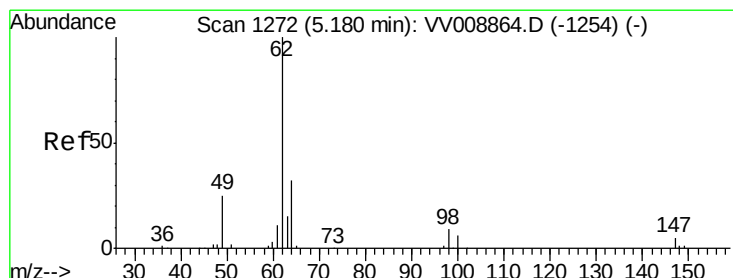
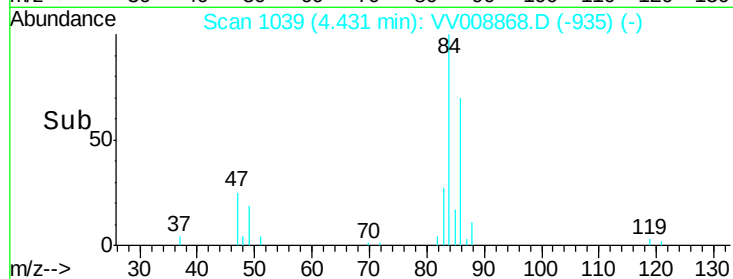
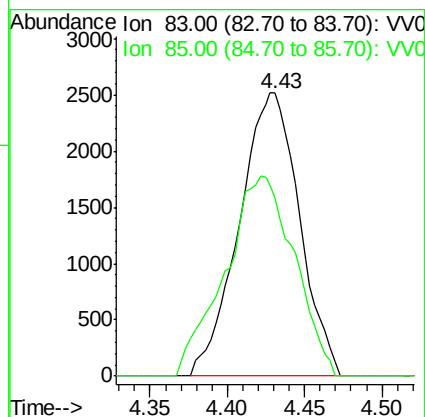
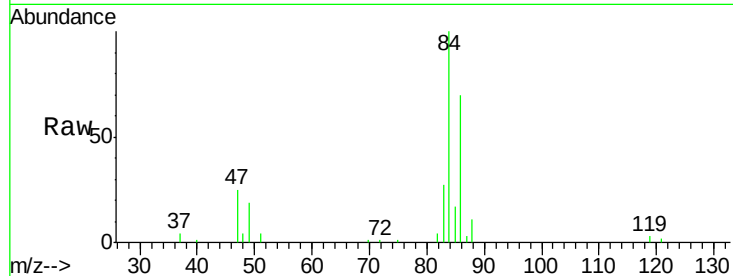
#25
Chloroform
Concen: 1.434 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. 0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tgt Ion: 83 Resp: 6811
Ion Ratio Lower Upper
83 100
85 81.5 45.6 84.8

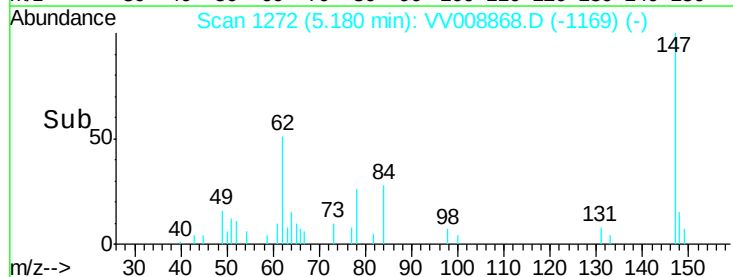
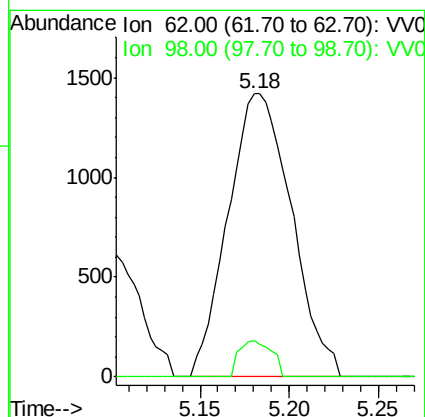
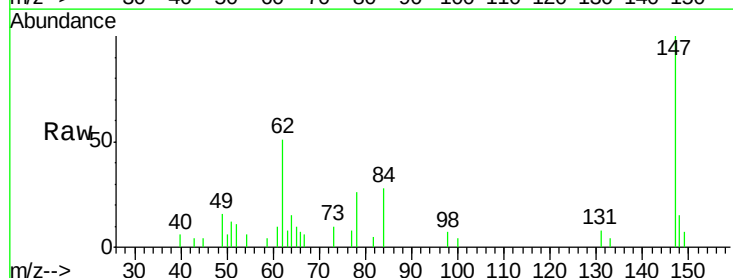
Manual Integrations
APPROVED

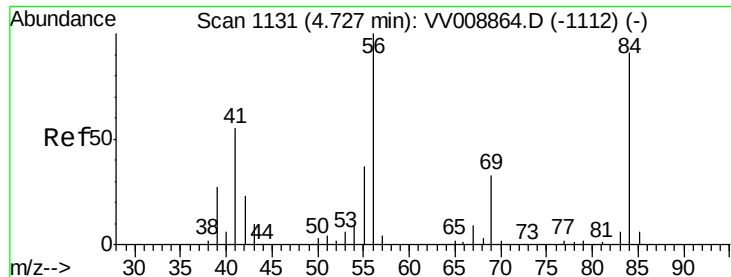
sam
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#27
1,2-Dichloroethane
Concen: 1.088 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Tgt Ion: 62 Resp: 3518
Ion Ratio Lower Upper
62 100
98 12.9 7.4 11.0#





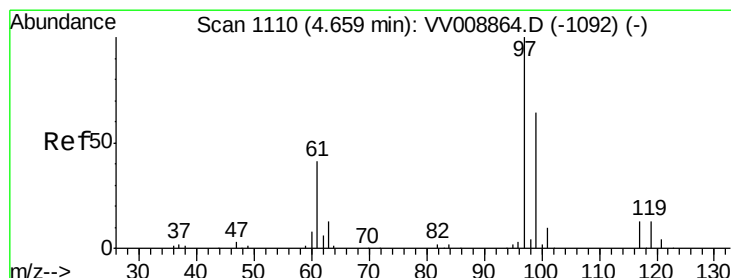
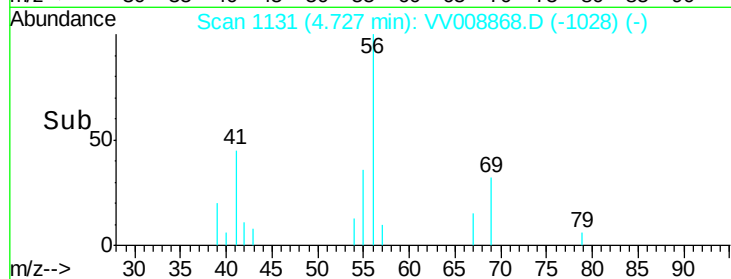
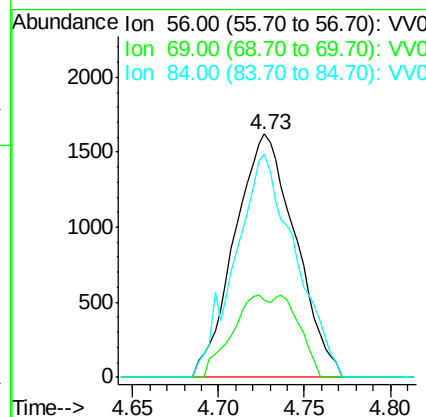
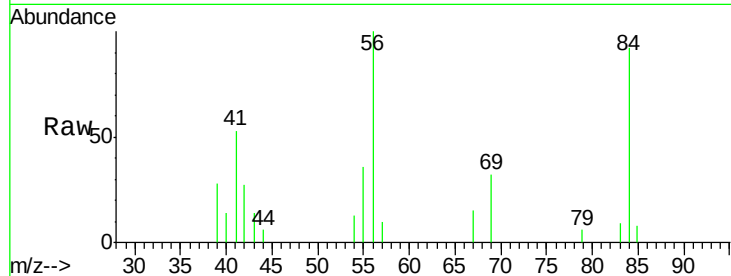
#30
Cyclohexane
Concen: 0.903 ug/L
RT: 4.73 min Scan# 1131
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tgt Ion: 56 Resp: 3966
Ion Ratio Lower Upper
56 100
69 21.3 25.8 38.8#
84 83.7 73.0 109.6

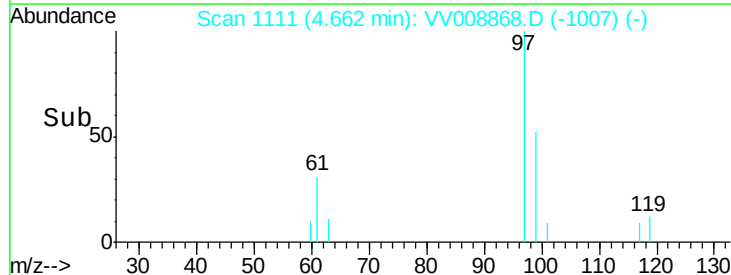
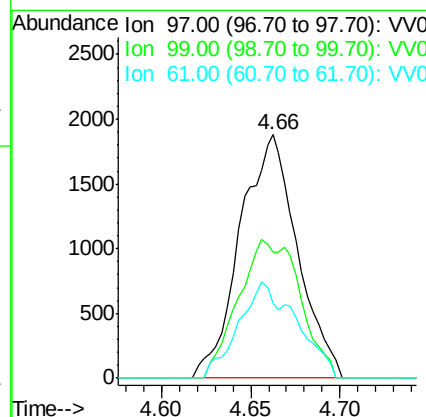
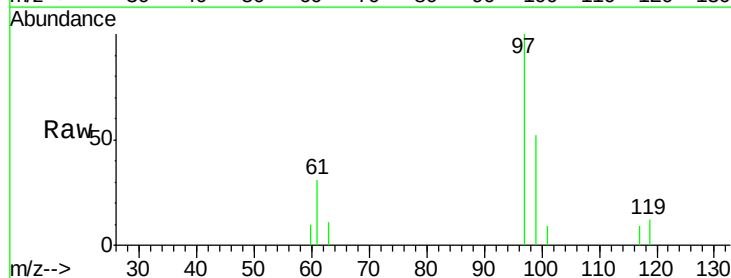
Manual Integrations
APPROVED

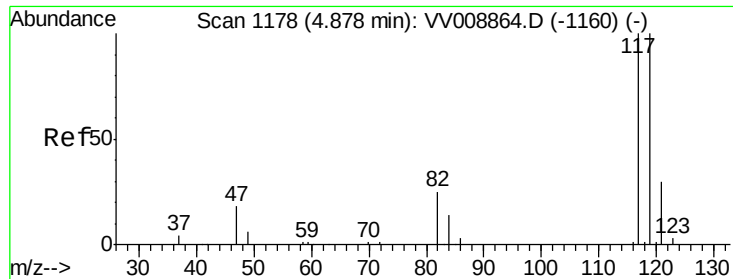
sam
12/11/2018 4:25:53 PM



#31
1,1,1-Trichloroethane
Concen: 0.935 ug/L
RT: 4.66 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Tgt Ion: 97 Resp: 4206
Ion Ratio Lower Upper
97 100
99 35.5 51.9 77.9#
61 26.0 33.1 49.7#





#32

Carbon tetrachloride

Concen: 0.862 ug/L

RT: 4.88 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tgt Ion:117 Resp: 3542

Ion Ratio Lower Upper

117 100

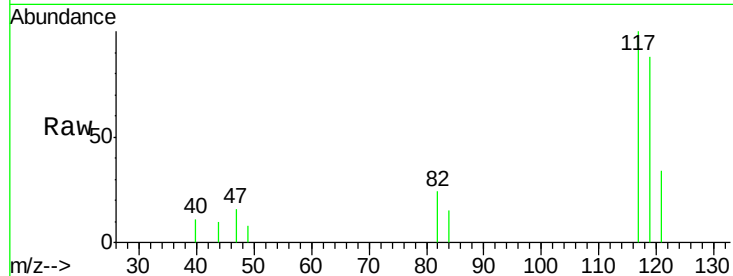
119 58.6 77.1 115.7#

Manual Integrations

APPROVED

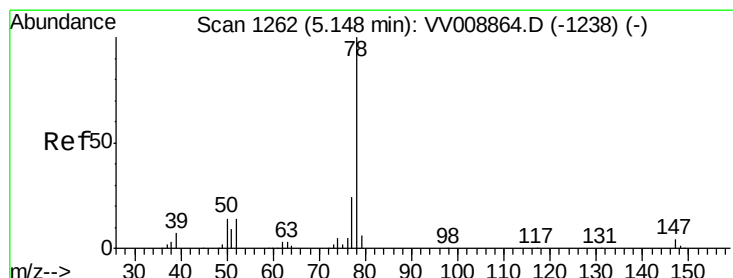
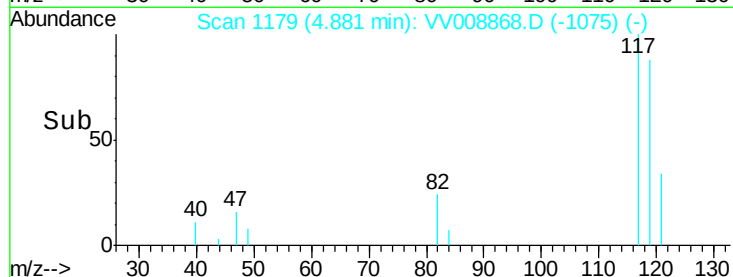
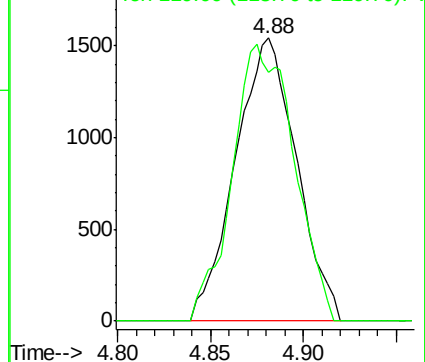
sam

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 1.008 ug/L

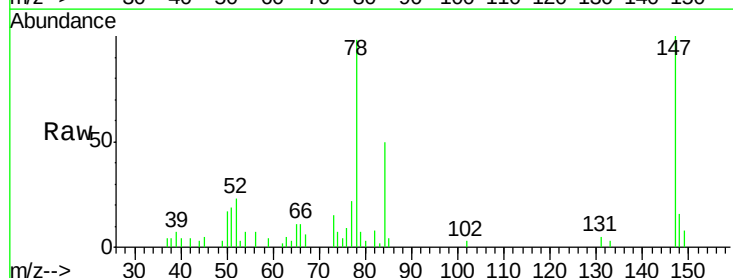
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

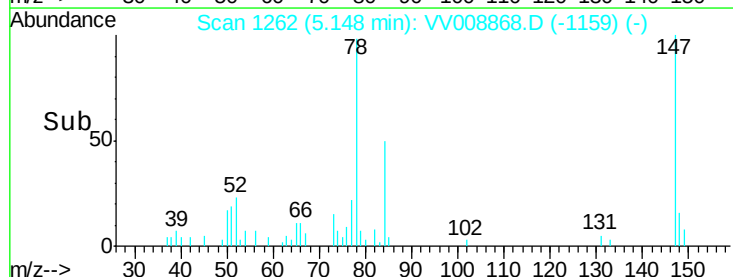
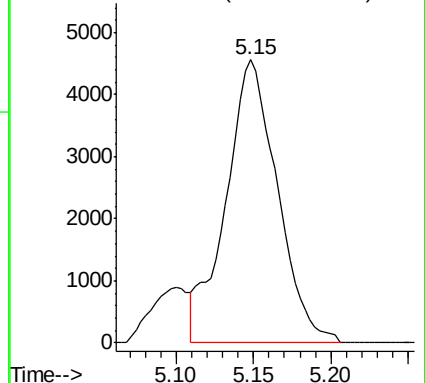
Lab File: VV008868.D

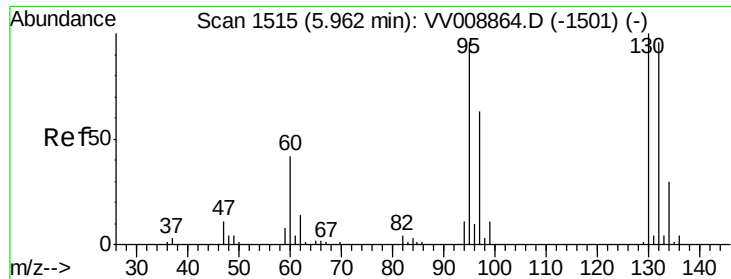
Acq: 06 Dec 2018 21:22

Tgt Ion: 78 Resp: 10541



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 1.010 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tgt Ion: 95 Resp: 3182
Ion Ratio Lower Upper

95 100

97 67.3 45.3 84.1

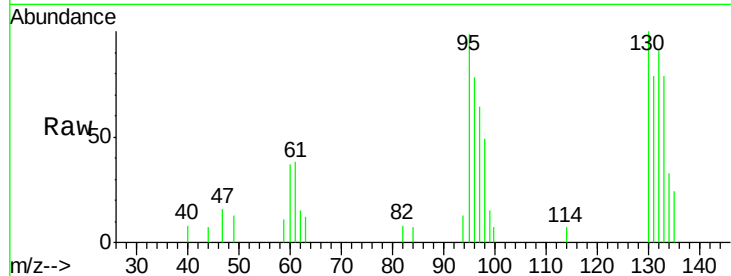
132 97.3 70.0 130.0

130 105.5 73.4 136.4

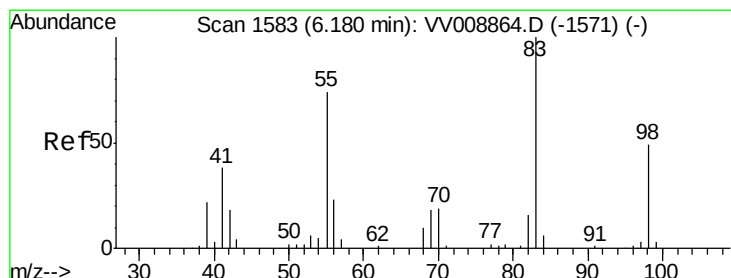
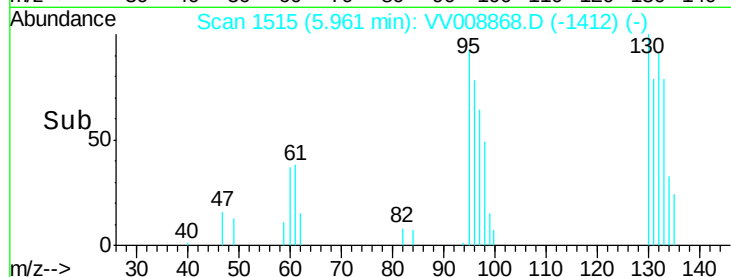
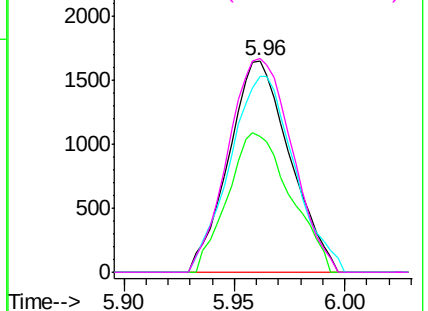
Manual Integrations
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sam

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Abundance Ion 95.00 (94.70 to 95.70): VV0
Ion 97.00 (96.70 to 97.70): VV0
Ion 132.00 (131.70 to 132.70): VV0
Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 0.975 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VV008868.D

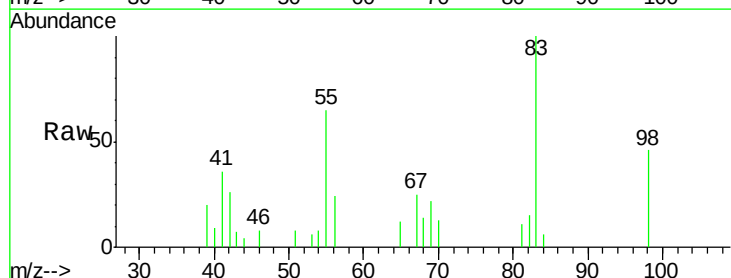
Acq: 06 Dec 2018 21:22

Tgt Ion: 83 Resp: 4899
Ion Ratio Lower Upper

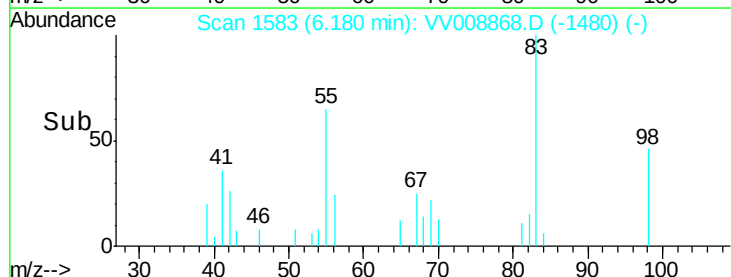
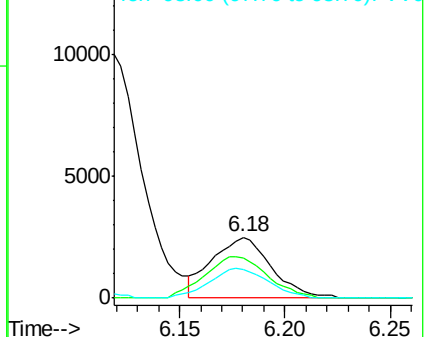
83 100

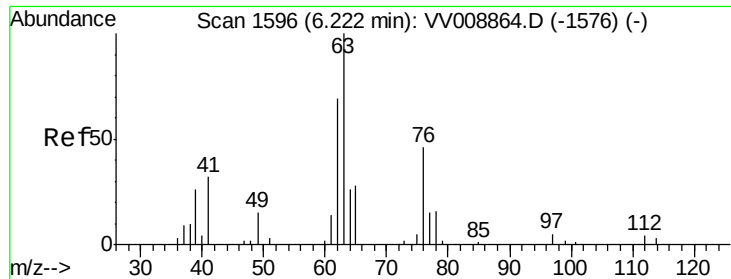
55 71.1 58.2 87.2

98 48.6 37.8 56.8



Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0





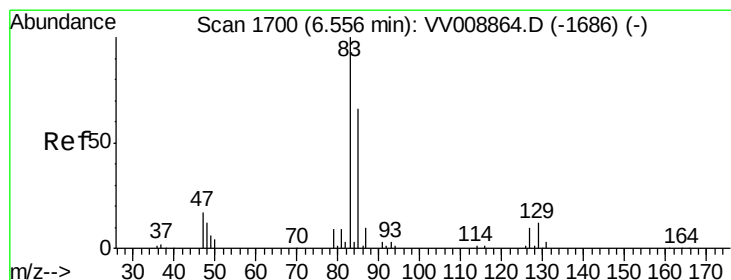
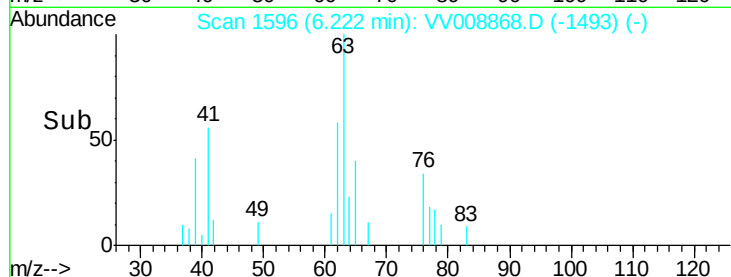
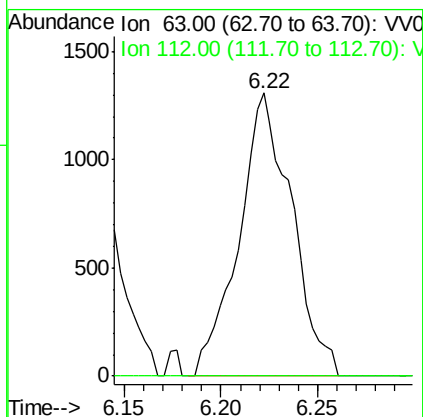
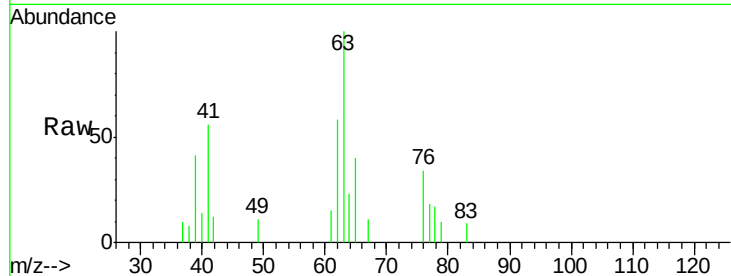
#40
 1,2-Dichloropropane
 Concen: 0.994 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. -0.00 min
 Lab File: VV008868.D
 Acq: 06 Dec 2018 21:22

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tgt Ion: 63 Resp: 2494
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.8 5.8#

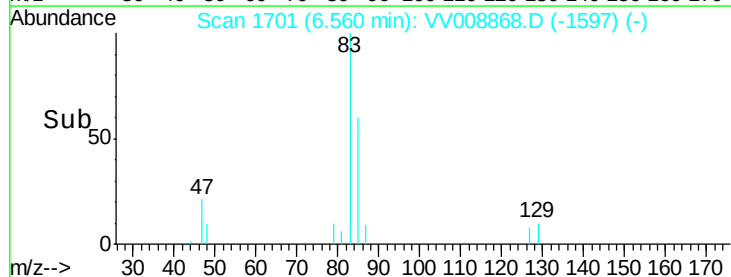
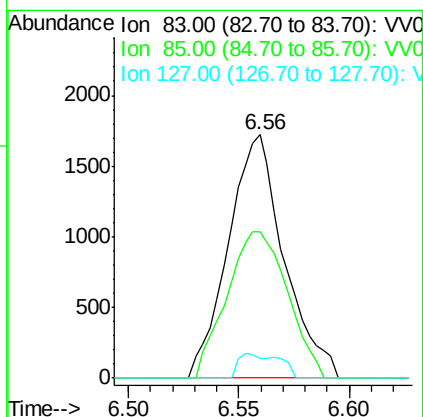
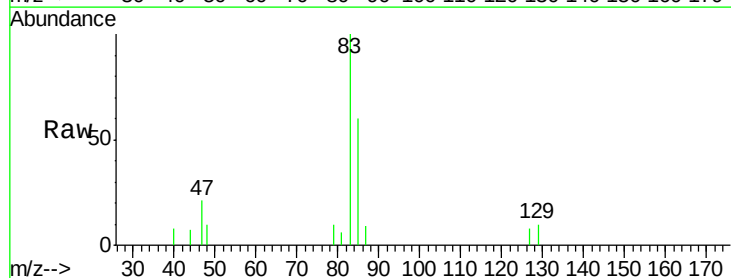
Manual Integrations
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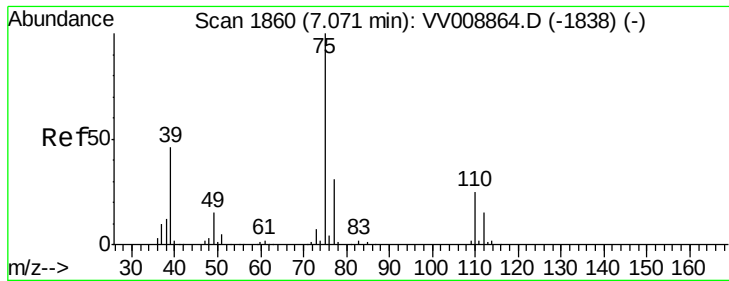
sam
 12/11/2018 4:25:53 PM



#41
 Bromodichloromethane
 Concen: 0.912 ug/L
 RT: 6.56 min Scan# 1701
 Delta R.T. 0.00 min
 Lab File: VV008868.D
 Acq: 06 Dec 2018 21:22

Tgt Ion: 83 Resp: 3015
 Ion Ratio Lower Upper
 83 100
 85 59.9 45.3 84.1
 127 8.2 7.2 10.8





#42

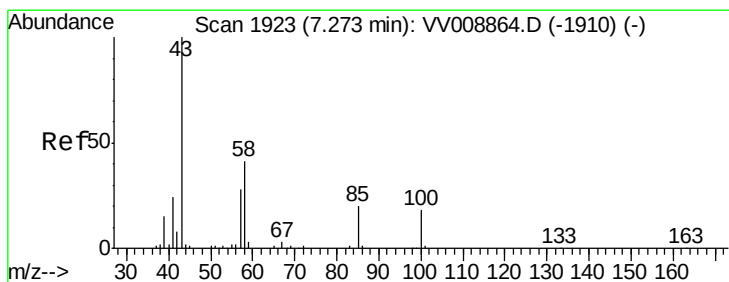
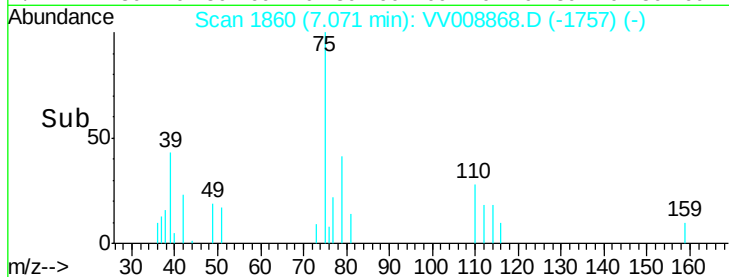
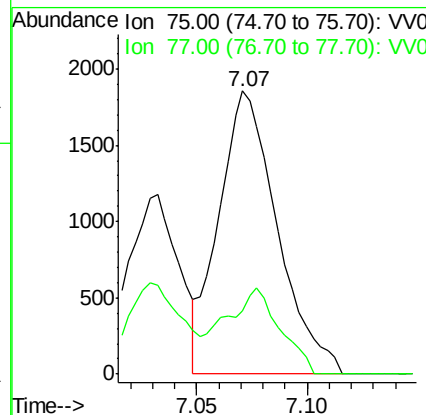
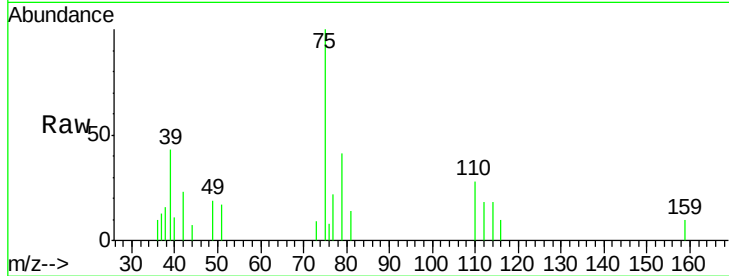
cis-1,3-Dichloropropene
Concen: 0.930 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tgt Ion	Ratio	Lower	Upper
75	100		
77	22.1	21.3	39.6

Manual Integrations
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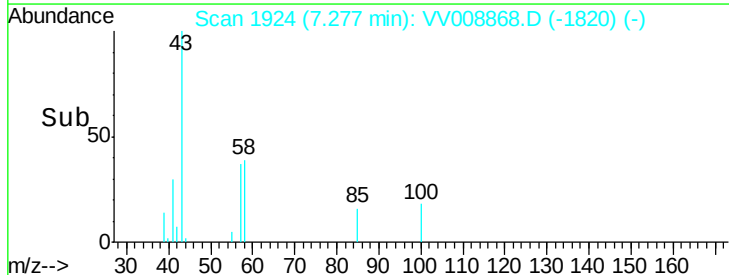
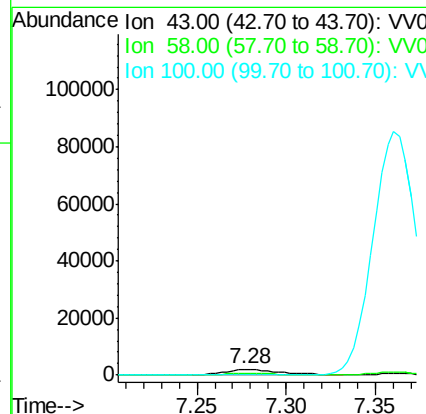
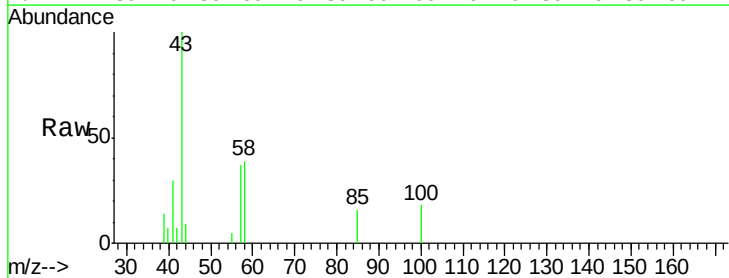
sam
12/11/2018 4:25:53 PM

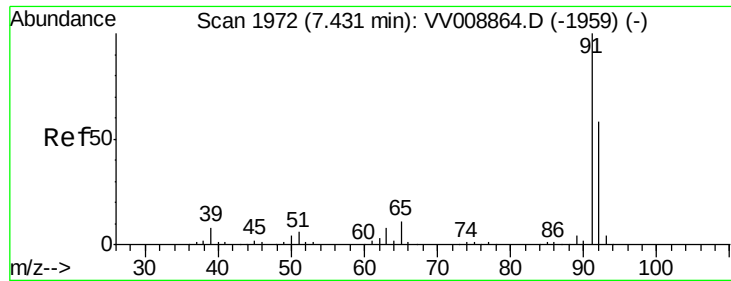


#43

4-Methyl-2-pentanone
Concen: 2.636 ug/L
RT: 7.28 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.6	32.2	48.4
100	12.7	13.8	20.8





#44

Toluene

Concen: 0.996 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tgt Ion: 91 Resp: 10924

Ion Ratio Lower Upper

91 100

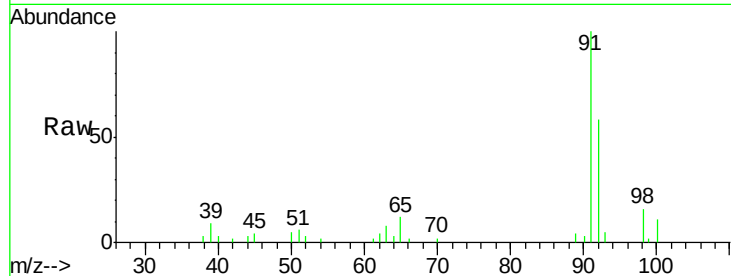
92 58.3 41.7 77.5

Manual Integrations

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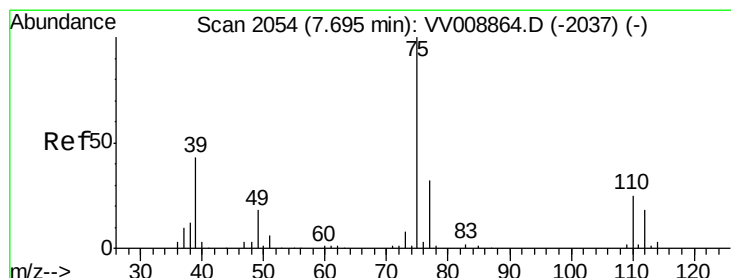
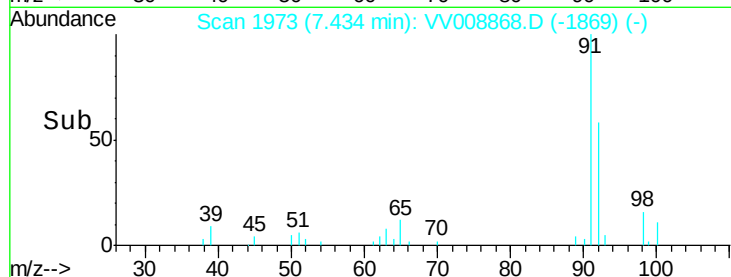
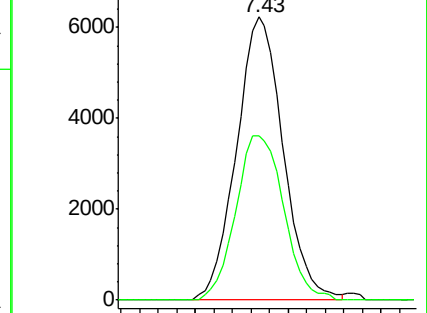
sam

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Abundance Ion 91.00 (90.70 to 91.70): VV008868.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV008868.D (-1959) (-)



#45

trans-1,3-Dichloropropene

Concen: 0.857 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV008868.D

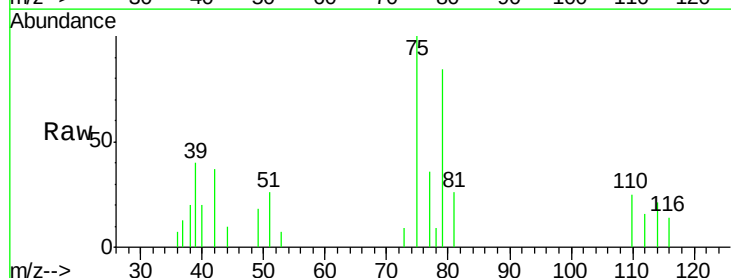
Acq: 06 Dec 2018 21:22

Tgt Ion: 75 Resp: 2743

Ion Ratio Lower Upper

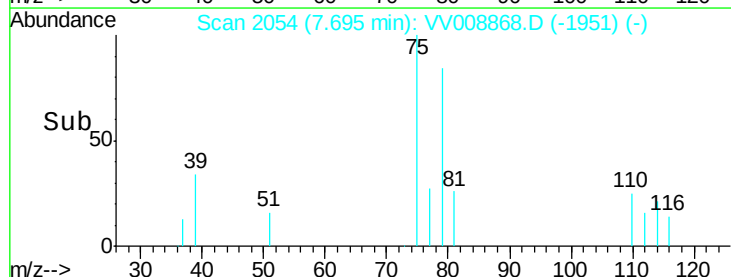
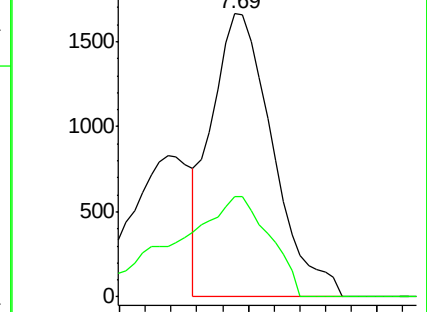
75 100

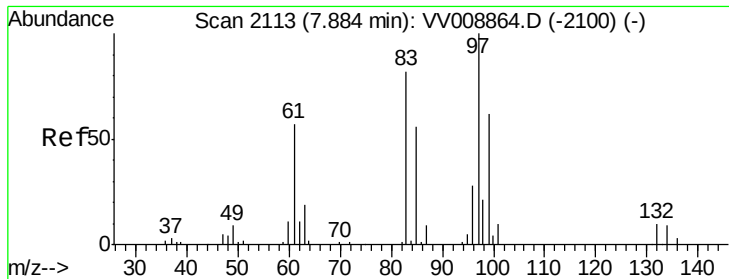
77 35.7 23.6 43.8



Abundance Ion 75.00 (74.70 to 75.70): VV008868.D (-1951) (-)

Ion 77.00 (76.70 to 77.70): VV008868.D (-1951) (-)





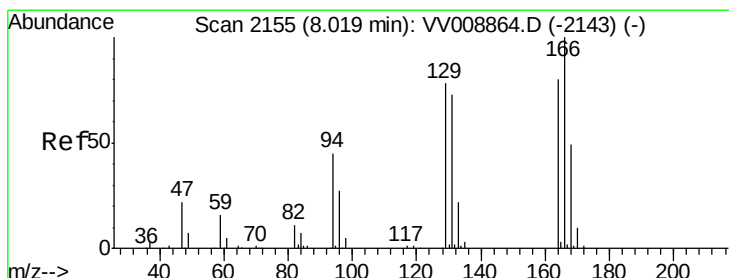
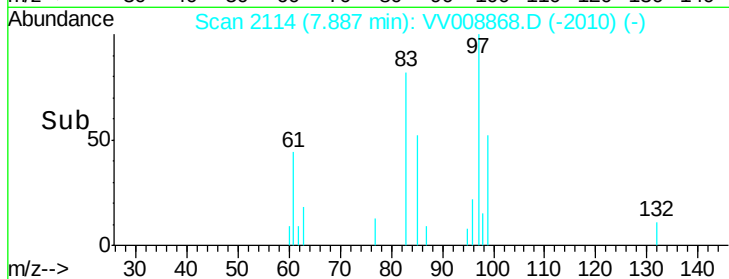
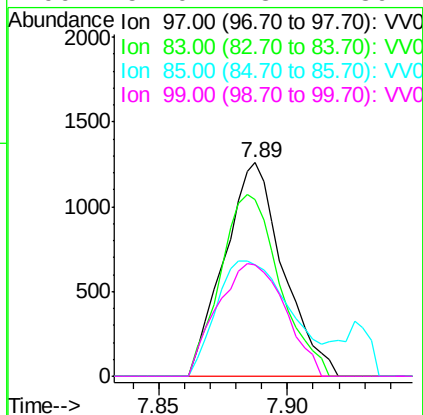
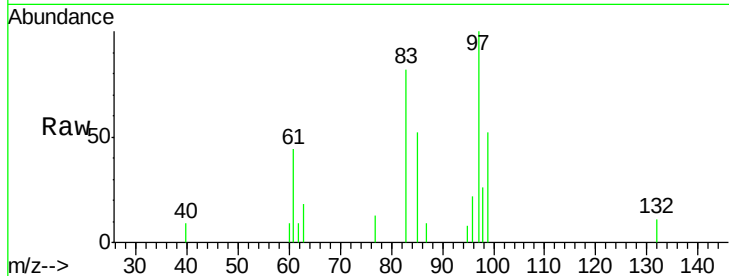
#46
1,1,2-Trichloroethane
Concen: 0.961 ug/L
RT: 7.89 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tgt Ion	Ratio	Lower	Upper
97	100		
83	82.5	56.6	105.2
85	52.4	36.6	68.0
99	52.0	43.2	80.2

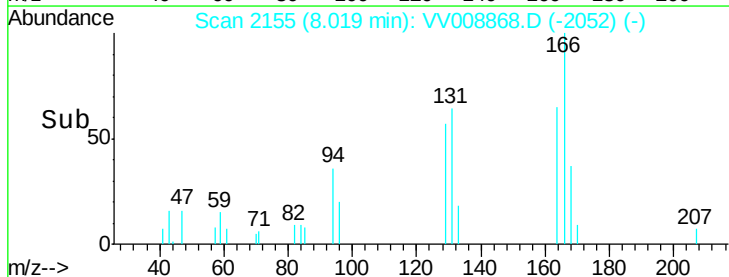
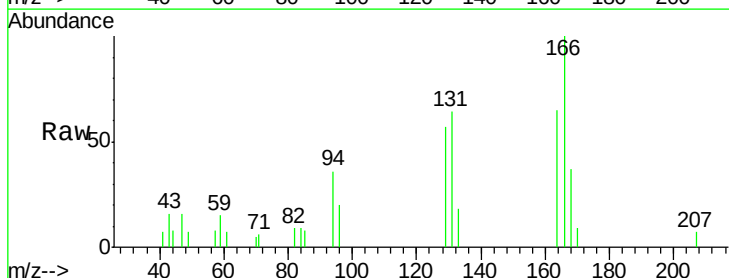
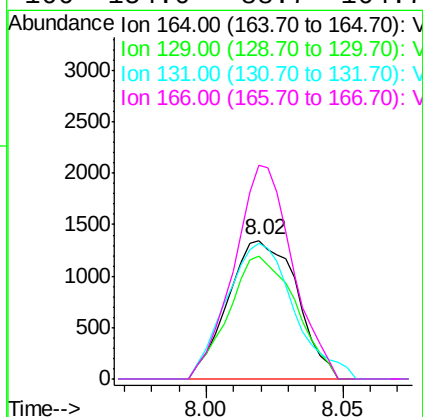
Manual Integrations
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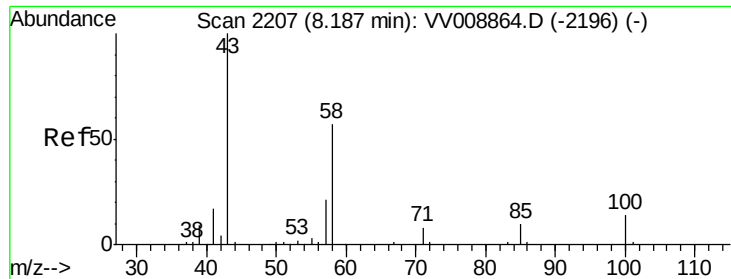
sam
12/11/2018 4:25:53 PM



#47
Tetrachloroethene
Concen: 0.921 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Tgt Ion	Ratio	Lower	Upper
164	100		
129	88.2	64.6	120.0
131	97.8	64.5	119.7
166	154.0	88.7	164.7





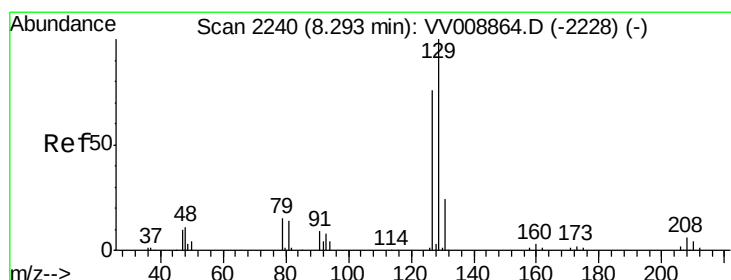
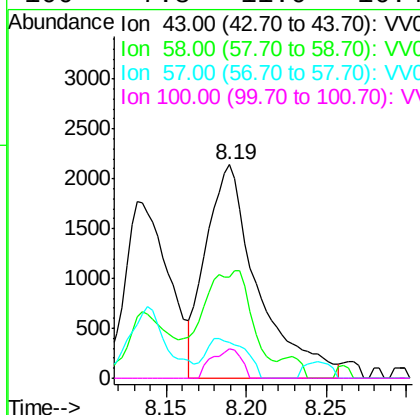
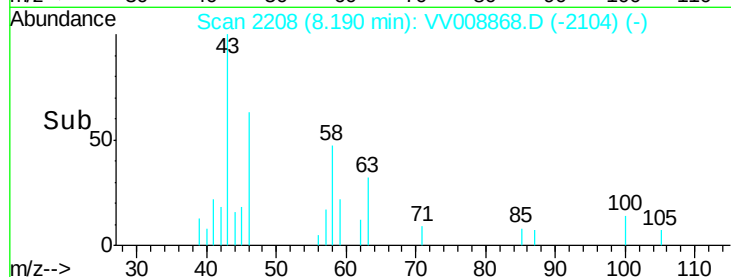
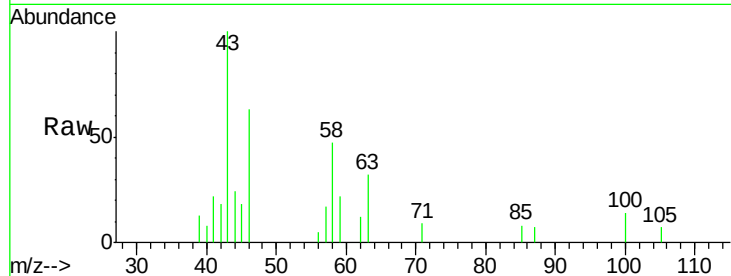
#49
2-Hexanone
Concen: 3.437 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tgt Ion: 43 Resp: 4822
Ion Ratio Lower Upper
43 100
58 13.3 43.9 65.9#
57 14.2 15.7 23.5#
100 7.8 11.0 16.4#

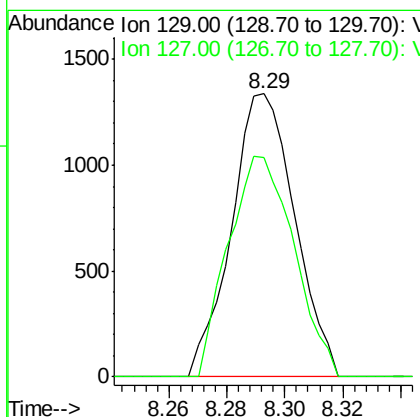
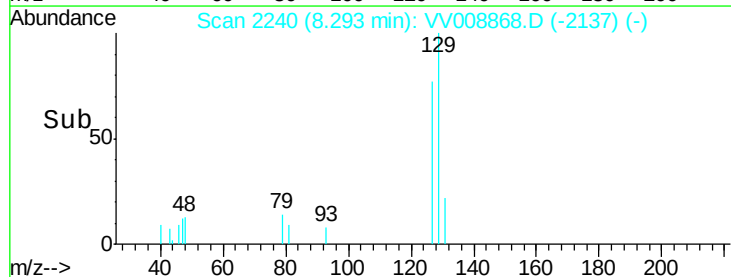
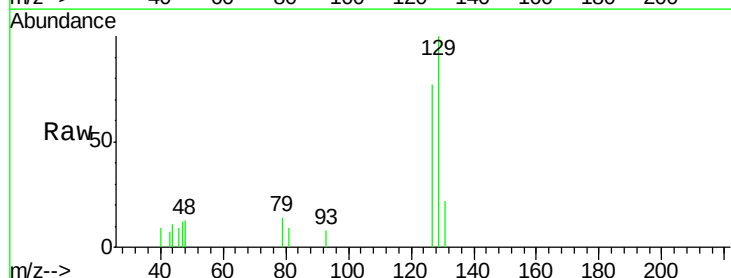
Manual Integrations
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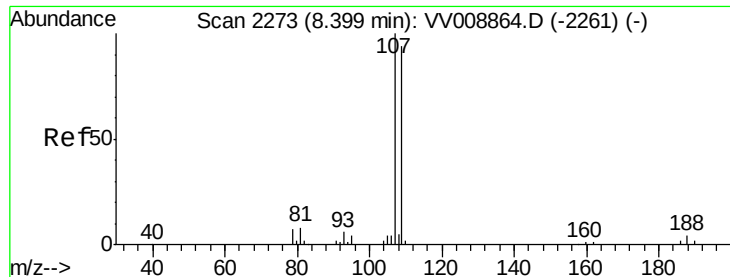
sam
12/11/2018 4:25:53 PM



#50
Dibromochloromethane
Concen: 0.848 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Tgt Ion: 129 Resp: 2032
Ion Ratio Lower Upper
129 100
127 77.4 53.5 99.3





#51

1,2-Dibromoethane

Concen: 0.876 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

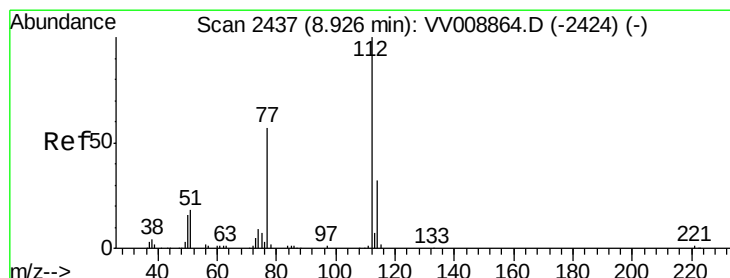
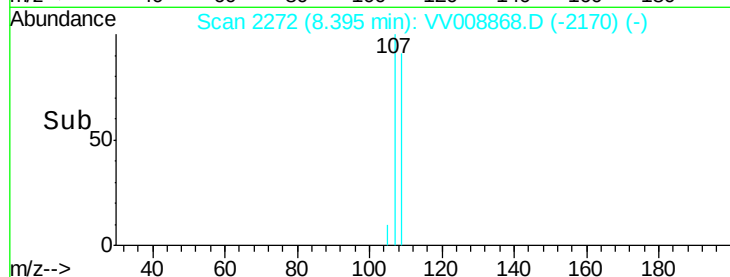
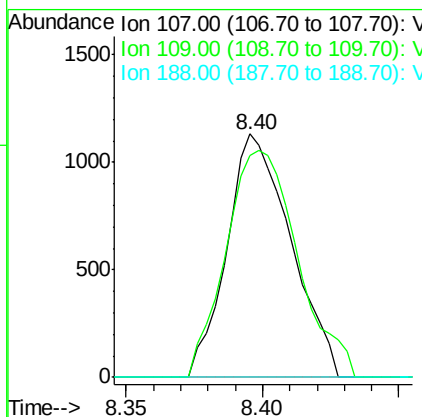
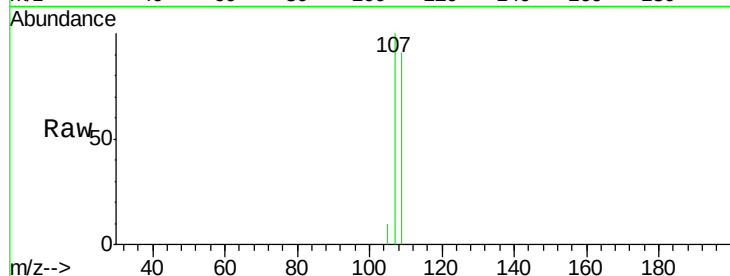
ClientSampled :

MDL03

Tgt Ion:	107	Resp:	1839
Ion Ratio	Lower	Upper	
107	100		
109	90.9	65.8	122.2
188	0.0	3.0	4.6#

Manual Integrations
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sam
12/11/2018 4:25:53 PM



#52

Chlorobenzene

Concen: 0.982 ug/L

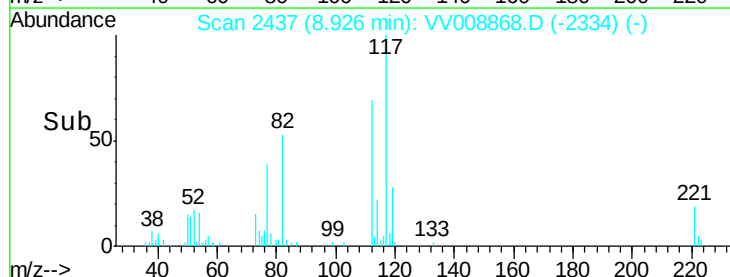
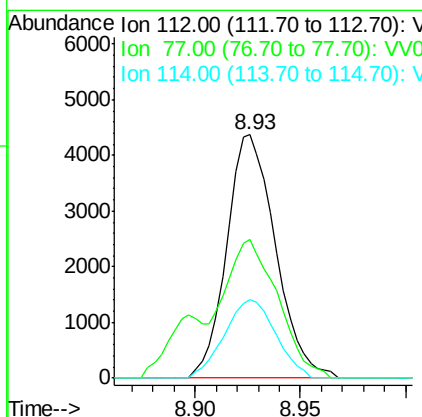
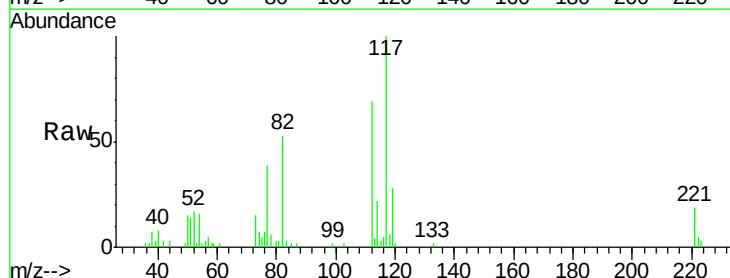
RT: 8.93 min Scan# 2437

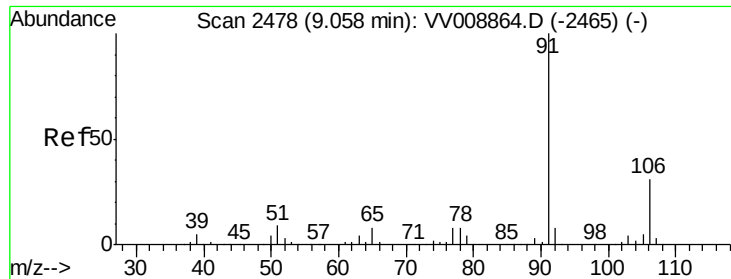
Delta R.T. -0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Tgt Ion:	112	Resp:	7011
Ion Ratio	Lower	Upper	
112	100		
77	56.9	44.6	66.8
114	32.4	22.6	42.0





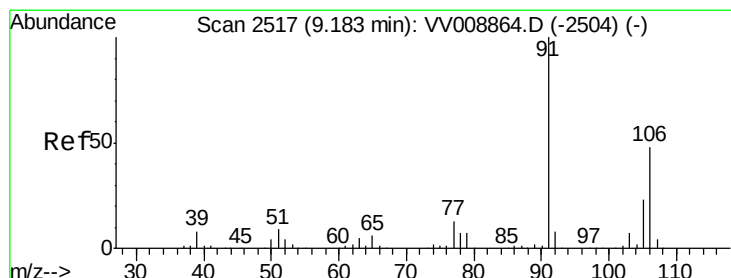
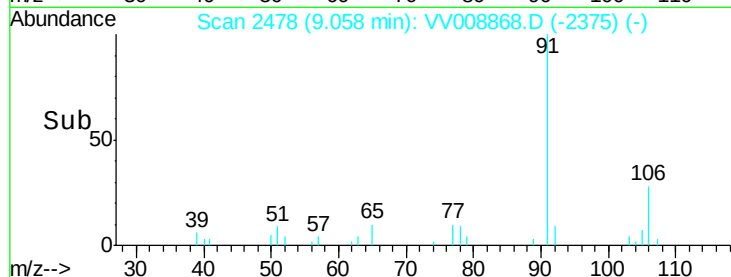
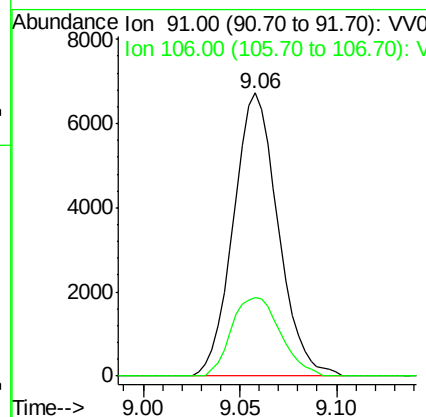
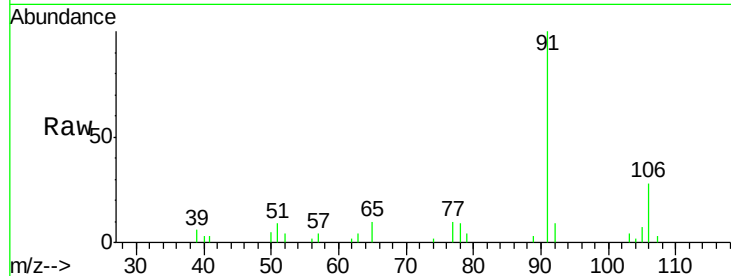
#53
Ethylbenzene
Concen: 0.907 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tgt Ion: 91 Resp: 10791
Ion Ratio Lower Upper
91 100
106 27.6 21.3 39.5

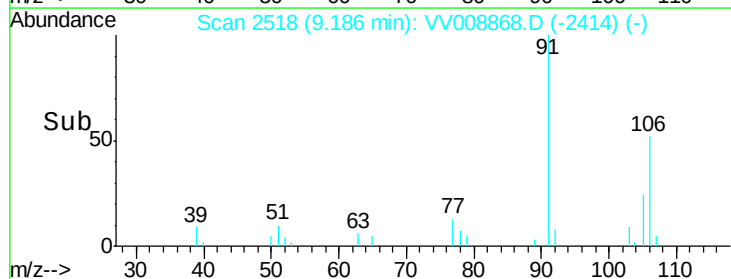
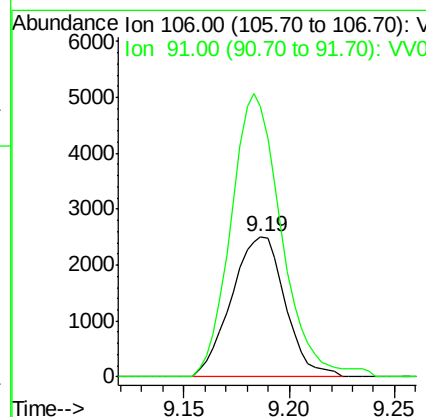
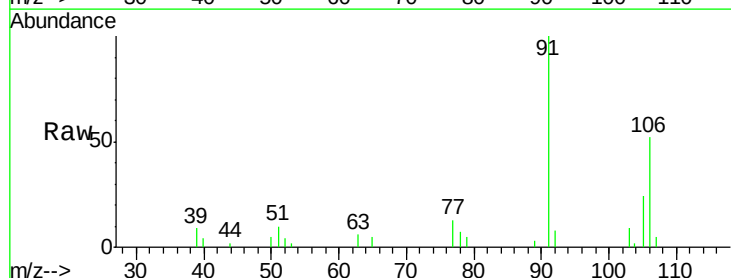
Manual Integrations
APPROVED

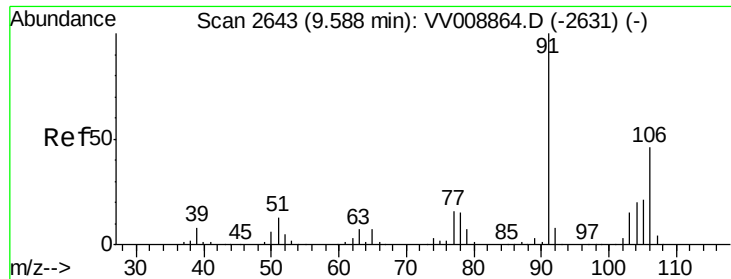
sam
12/11/2018 4:25:53 PM



#54
m,p-Xylene
Concen: 0.985 ug/L
RT: 9.19 min Scan# 2518
Delta R.T. 0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Tgt Ion: 106 Resp: 4438
Ion Ratio Lower Upper
106 100
91 192.5 141.3 262.3





#55

o-xylene

Concen: 0.913 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tgt Ion:106 Resp: 3819

Ion Ratio Lower Upper

106 100

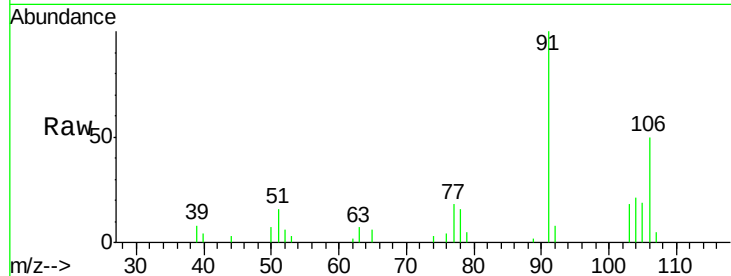
91 200.6 148.3 275.5

Manual Integrations

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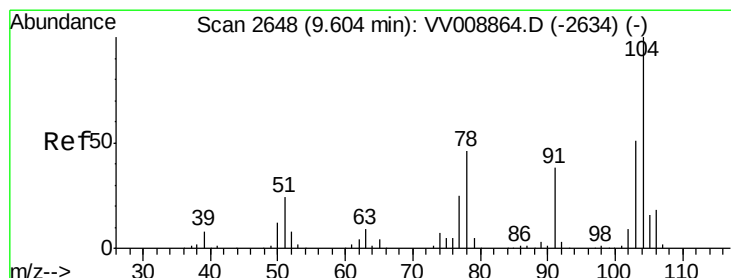
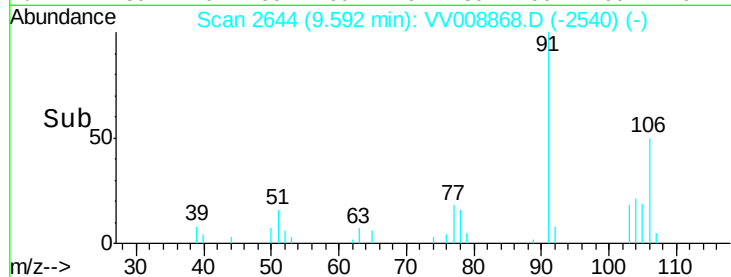
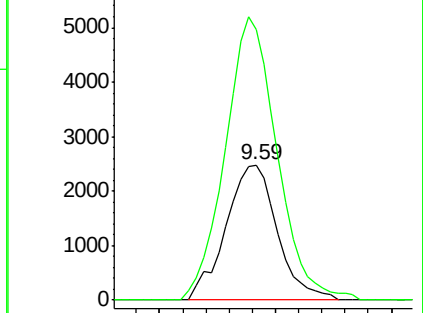
sam

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 0.782 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV008868.D

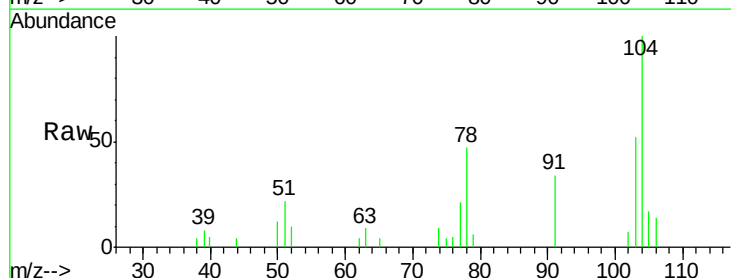
Acq: 06 Dec 2018 21:22

Tgt Ion:104 Resp: 5276

Ion Ratio Lower Upper

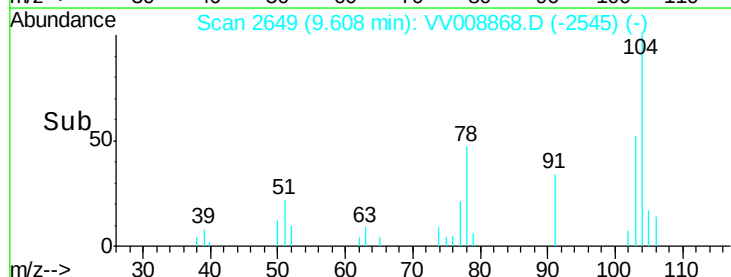
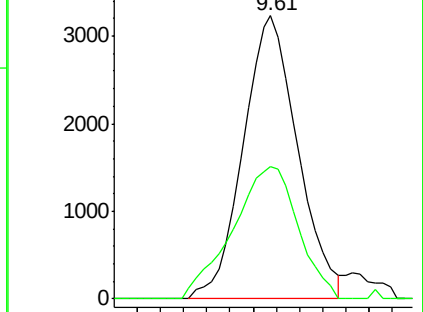
104 100

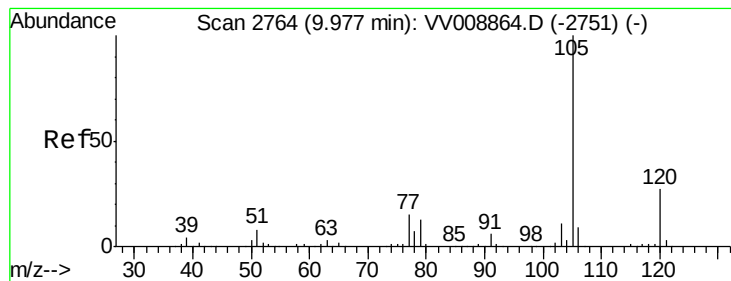
78 46.8 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 0.860 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

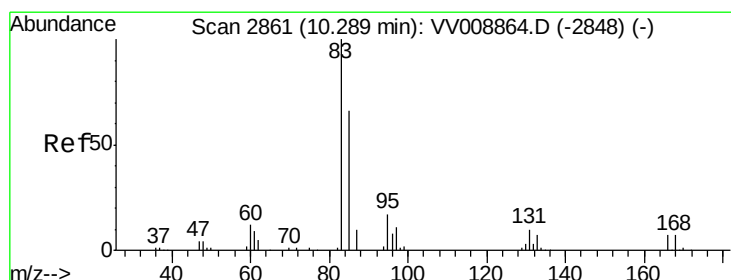
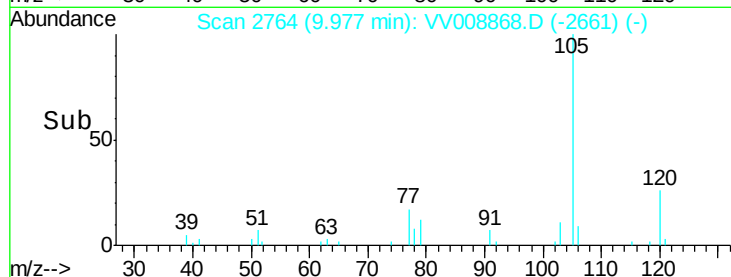
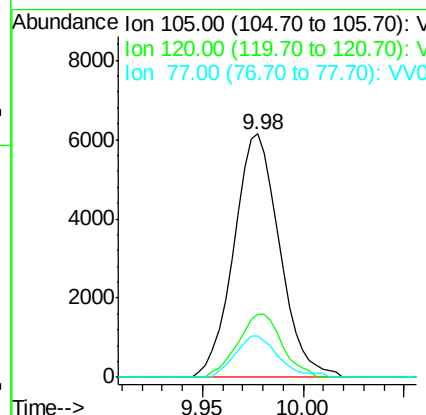
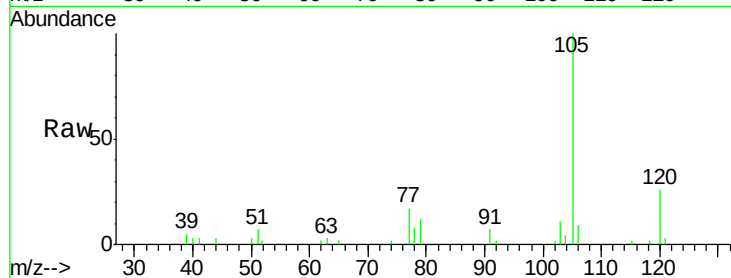
ClientSampleId :

MDL03

Tgt Ion:	105	Resp:	9779
Ion Ratio	Lower	Upper	
105	100		
120	25.0	21.7	32.5
77	15.8	12.4	18.6

Manual Integrations
APPROVED

sam
12/11/2018 4:25:53 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 1.097 ug/L m

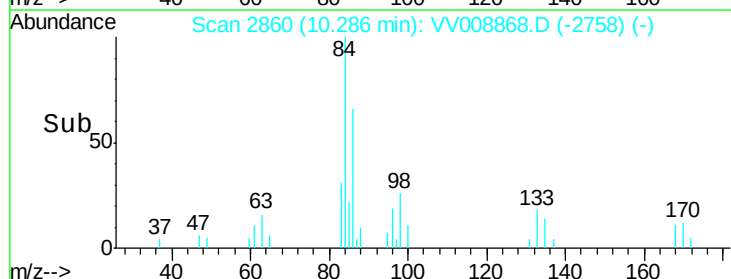
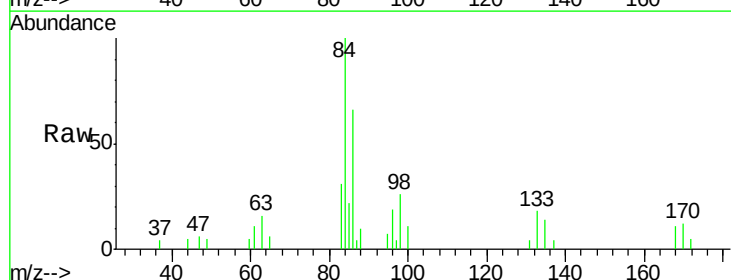
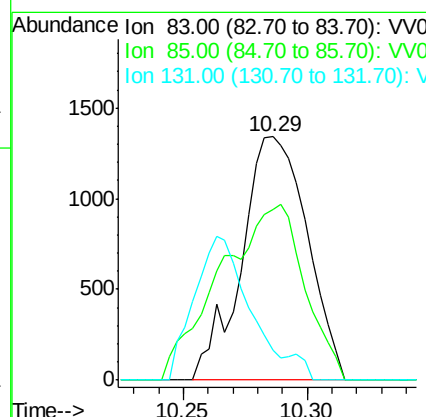
RT: 10.29 min Scan# 2860

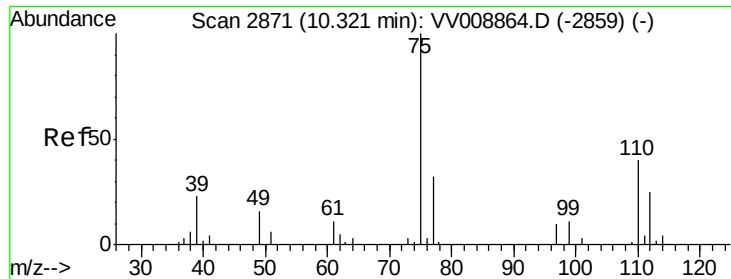
Delta R.T. -0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Tgt Ion:	83	Resp:	2479
Ion Ratio	Lower	Upper	
83	100		
85	70.0	44.3	82.3
131	12.1	7.8	11.8#





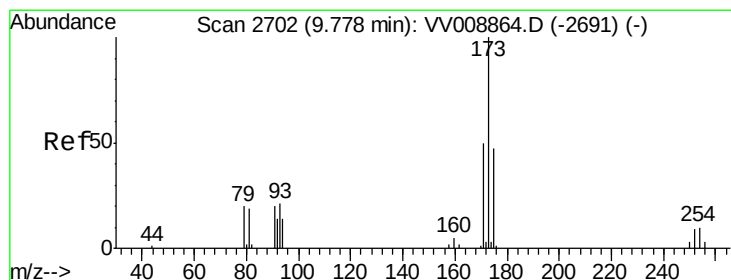
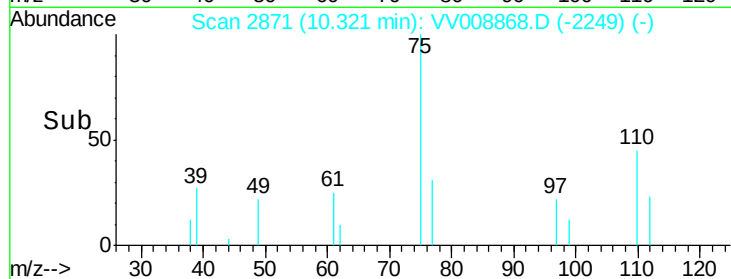
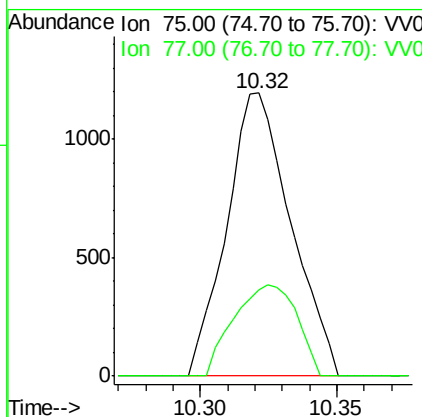
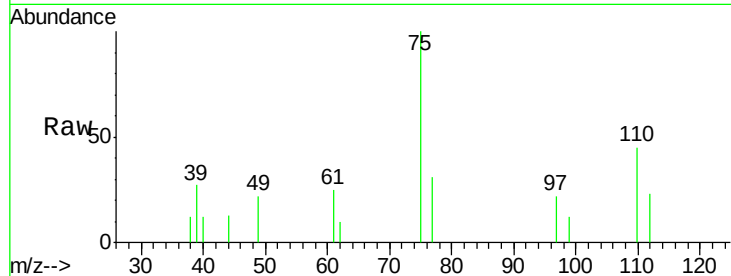
#59
1,2,3-Trichloropropane
Concen: 0.996 ug/L
RT: 10.32 min Scan# 2871
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tgt Ion: 75 Resp: 1947
Ion Ratio Lower Upper
75 100
77 31.7 25.6 38.4

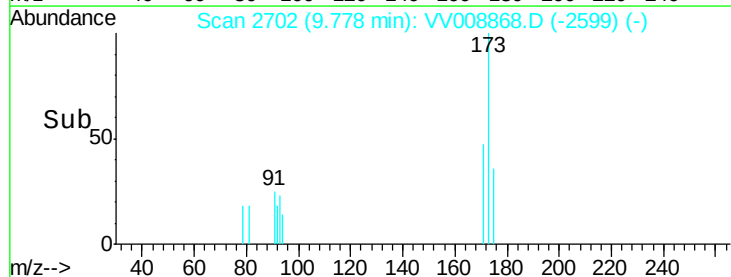
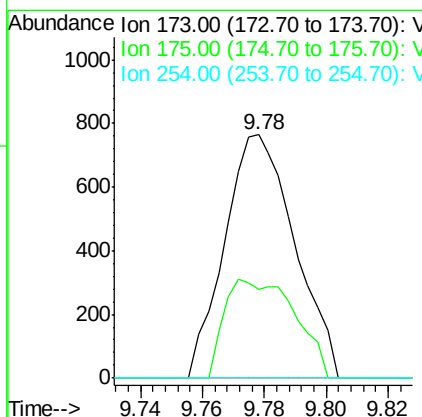
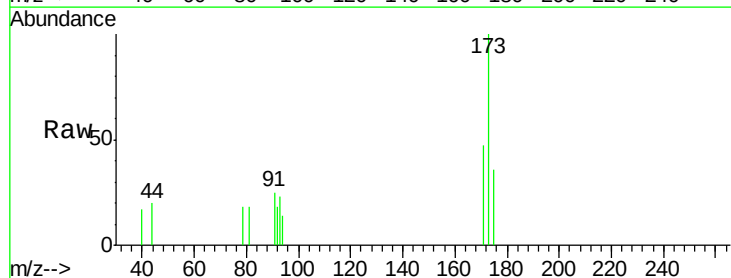
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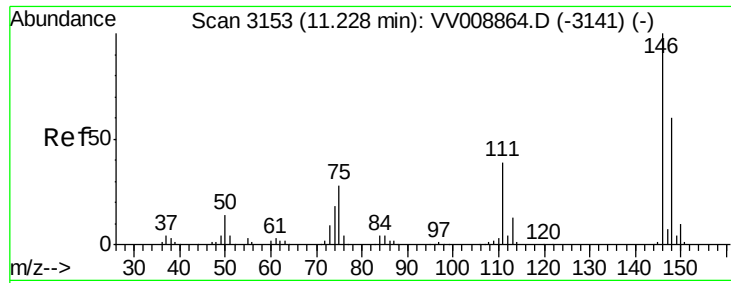
sam
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#62
Bromoform
Concen: 0.929 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. -0.00 min
Lab File: VV008868.D
Acq: 06 Dec 2018 21:22

Tgt Ion: 173 Resp: 1201
Ion Ratio Lower Upper
173 100
175 20.8 37.7 56.5#
254 0.0 7.1 10.7#





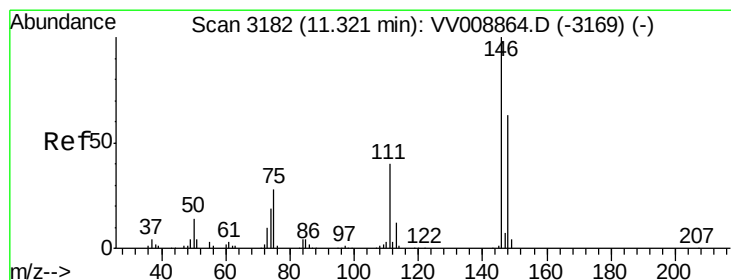
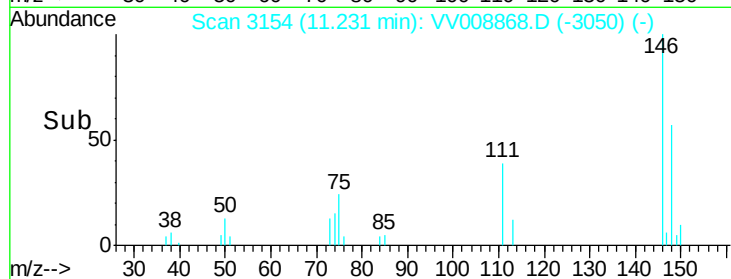
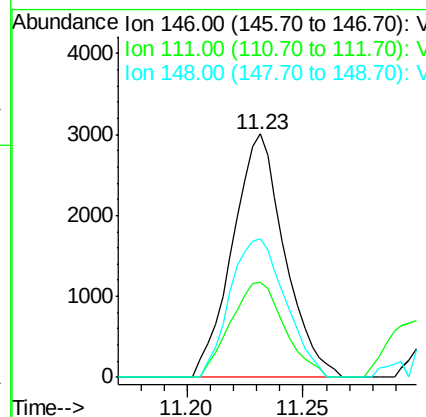
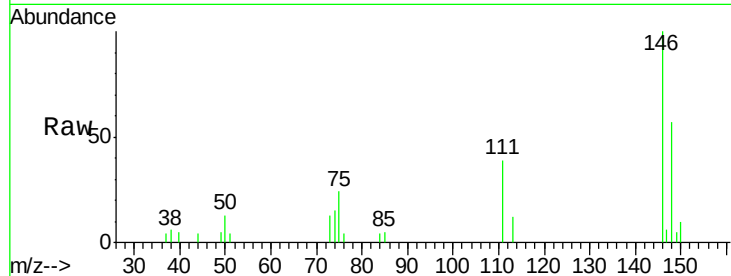
#63
 1,3-Dichlorobenzene
 Concen: 1.016 ug/L
 RT: 11.23 min Scan# 3154
 Delta R.T. 0.00 min
 Lab File: VV008868.D
 Acq: 06 Dec 2018 21:22

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	27.5	51.1
148	56.8	44.0	81.8

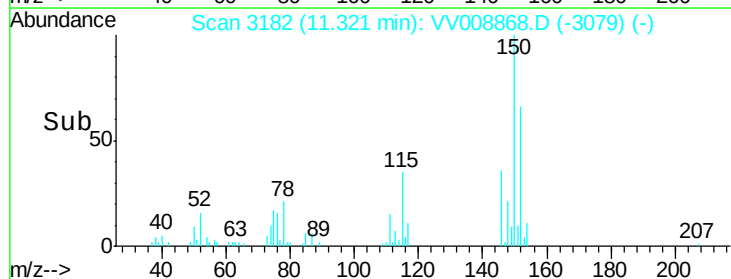
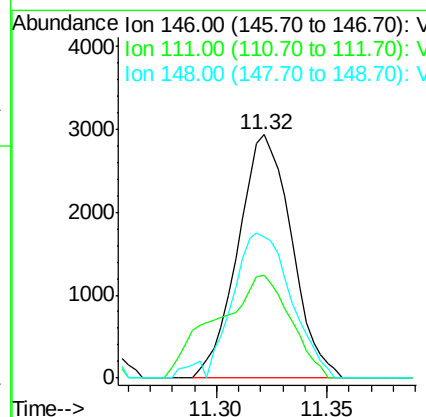
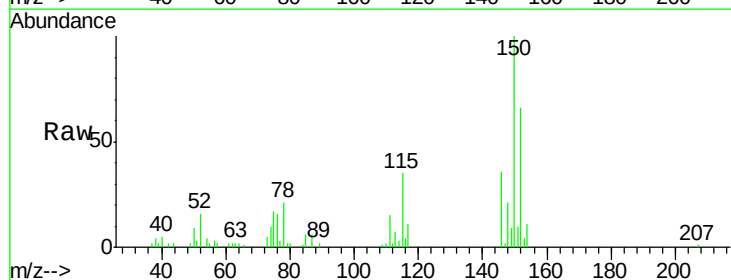
Manual Integrations
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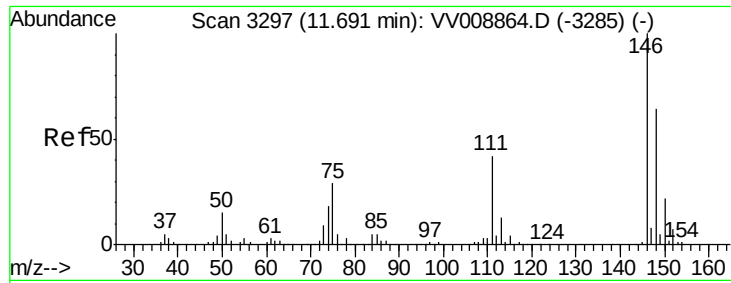
sam
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#64
 1,4-Dichlorobenzene
 Concen: 1.043 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: VV008868.D
 Acq: 06 Dec 2018 21:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.3	26.8	49.8
148	58.2	45.8	85.0





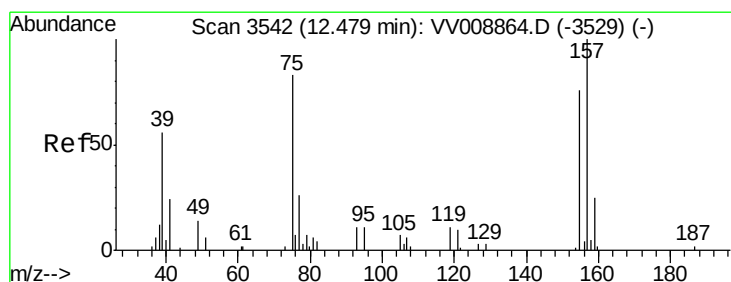
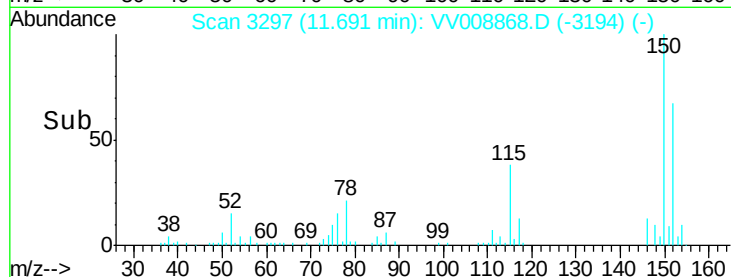
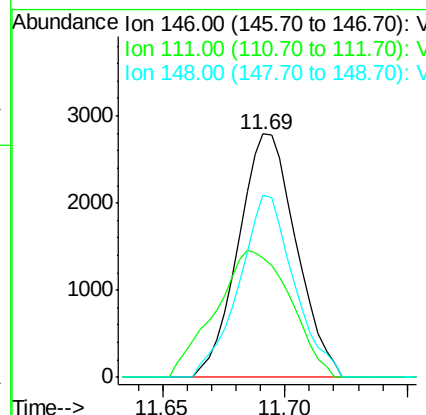
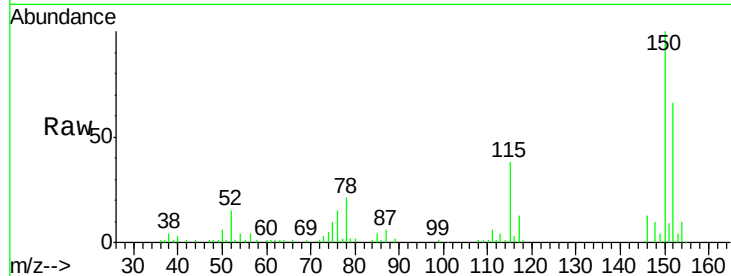
#65
 1,2-Dichlorobenzene
 Concen: 1.078 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VV008868.D
 Acq: 06 Dec 2018 21:22

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.9	34.2	51.4
148	74.7	51.0	76.6

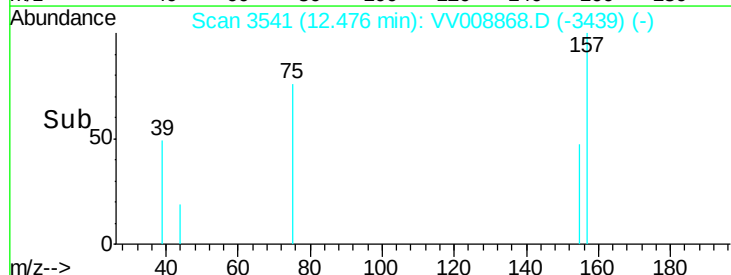
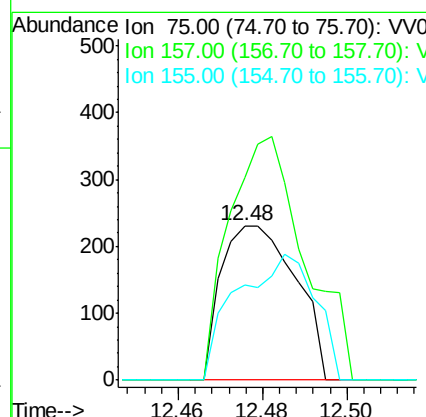
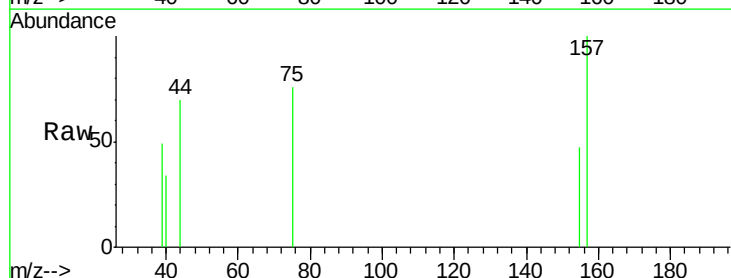
Manual Integrations
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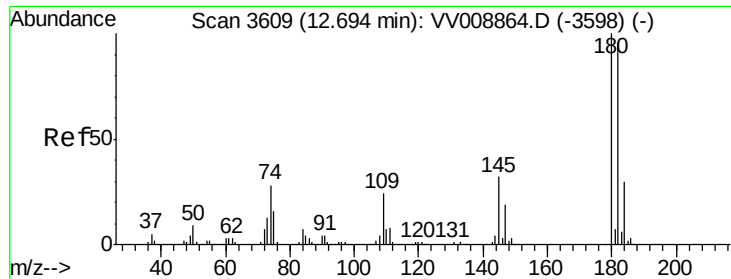
sam
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.812 ug/L m
 RT: 12.48 min Scan# 3541
 Delta R.T. -0.00 min
 Lab File: VV008868.D
 Acq: 06 Dec 2018 21:22

Tgt Ion	Ratio	Lower	Upper
75	100		
157	131.2	95.8	143.6
155	61.5	71.4	107.2#





#67

1,3,5-Trichlorobenzene

Concen: 0.995 ug/L

RT: 12.69 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

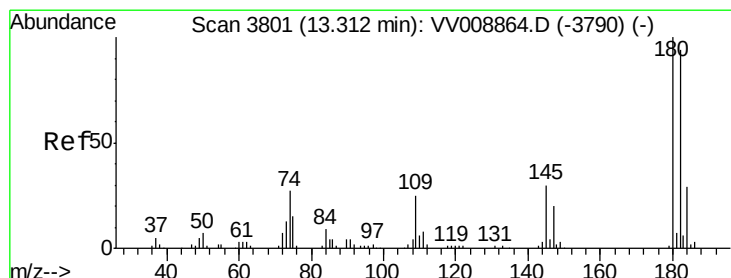
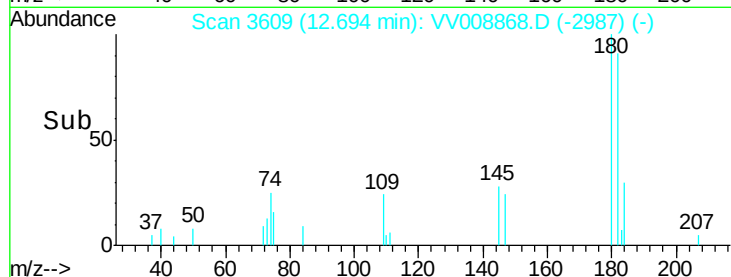
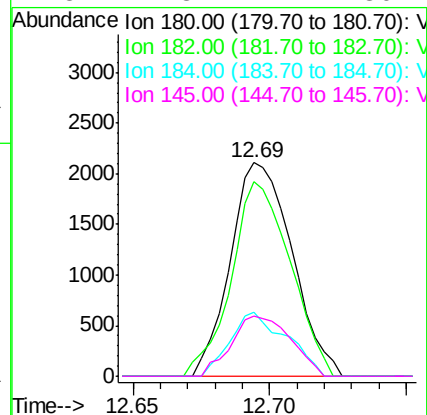
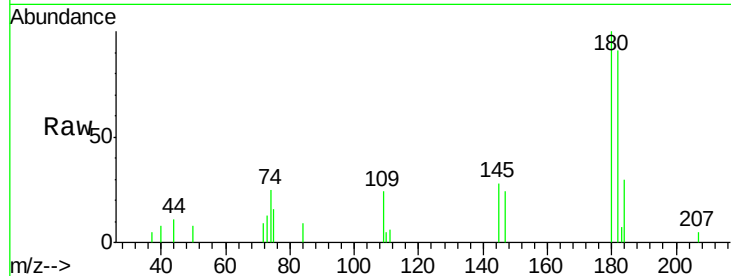
ClientSampled :

MDL03

Tgt Ion:	180	Resp:	3314
Ion Ratio	Lower	Upper	
180	100		
182	87.1	75.9	113.9
184	27.4	23.8	35.6
145	27.3	24.2	36.4

Manual Integrations
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#68

1,2,4-trichlorobenzene

Concen: 0.763 ug/L

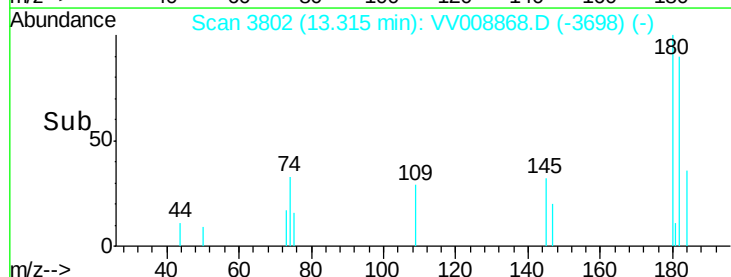
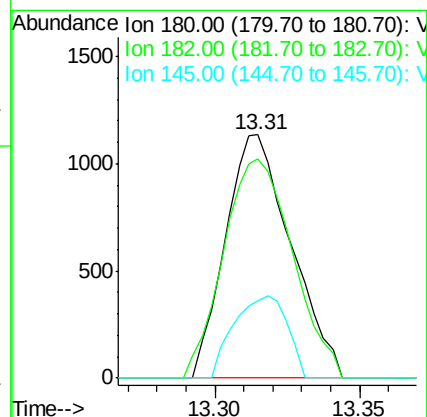
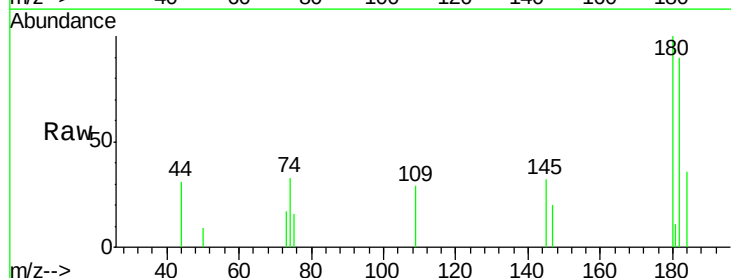
RT: 13.31 min Scan# 3802

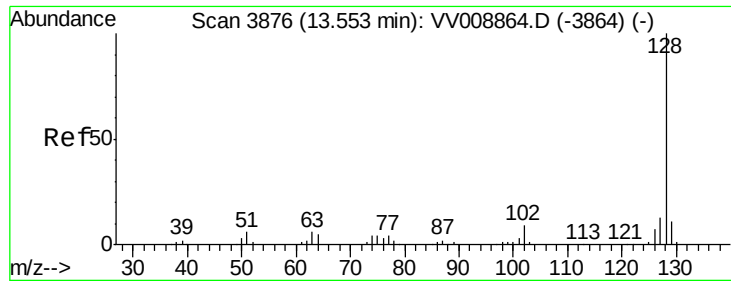
Delta R.T. 0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Tgt Ion:	180	Resp:	1780
Ion Ratio	Lower	Upper	
180	100		
182	95.2	77.4	116.0
145	27.4	25.6	38.4





#69

Naphthalene

Concen: 0.672 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Instrument :

MSVOA_V

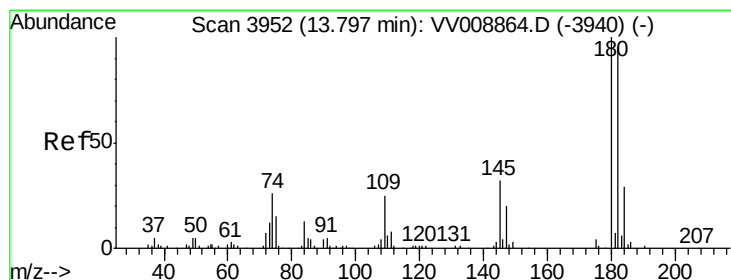
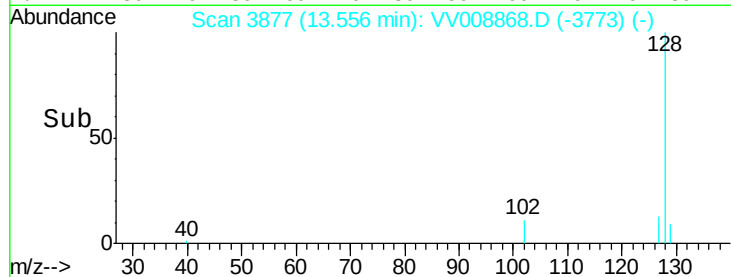
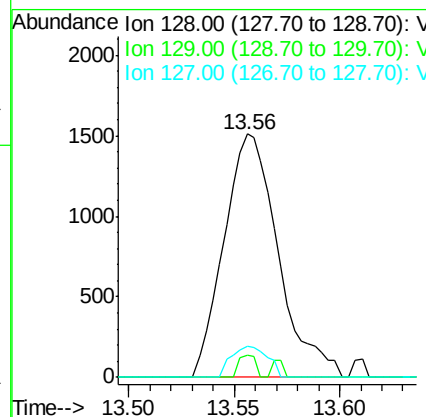
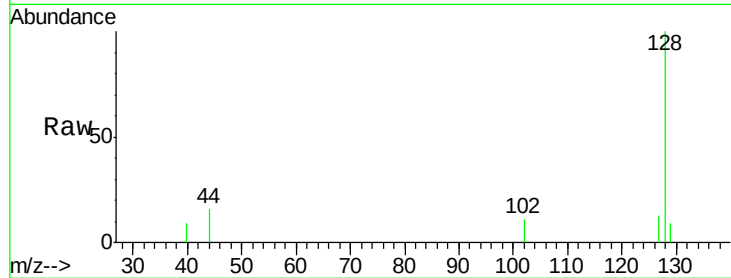
ClientSampleId :

MDL03

Tgt Ion:	128	Resp:	2700
Ion	Ratio	Lower	Upper
128	100		
129	2.9	8.6	13.0#
127	8.5	10.0	15.0#

Manual Integrations
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#70

1,2,3-Trichlorobenzene

Concen: 0.779 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV008868.D

Acq: 06 Dec 2018 21:22

Tgt Ion:	180	Resp:	1679
Ion	Ratio	Lower	Upper
180	100		
182	92.1	76.1	114.1
145	33.5	26.7	40.1

